

## APPENDIX A

### GloED COUNTRY LIST

Country Name
AFGHANISTAN
ALBANIA
ALGERIA
AMERICAN SAMOA
ANDORRA
ANGOLA
ANTIGUA & BARBUDA
ARGENTINA
ARUBA
AUSTRALIA
AUSTRIA
BAHAMAS
BAHRAIN
BANGLADESH
BARBADOS
BELGIUM
BELIZE
BENIN
BERMUDA
BHUTAN
BOLIVIA
BOTSWANA
BRAZIL
BRUNEI
BULGARIA
BURKINA FASO
BURMA
BURUNDI
CAMBODIA
CAMEROON
CANADA
CAPE VERDE
CAYMAN ISLANDS
Country Name

CENTRAL AFRICAN REPUBLIC
CHAD
CHILE
CHINA
COLOMBIA
COMOROS
CONGO
COSTA RICA
CUBA
CYPRUS
CZECHOSLOVAKIA
DENMARK
DJIBOUTI
DOMINICA
DOMINICAN REPUBLIC
ECUADOR
EGYPT
EL SALVADOR
EQUATORIAL GUINEA
ETHIOPIA
FALKLAND ISLANDS
FIJI
FINLAND
FRANCE
FRENCH GUIANA
FRENCH POLYNESIA
GABON
GAMBIA
EAST GERMANY
WEST GERMANY
GHANA
GREECE
GREENLAND
GRENADA
GUADELOUPE
GUAM
GUATEMALA
GUINEA
GUINEA-BISSAU
Country Name

GUYANA
HAITI
HONDURAS
HONG KONG
HUNGARY
ICELAND
INDIA
INDONESIA
IRAN
IRAQ
IRELAND
ISRAEL
ITALY
IVORY COAST
JAMAICA
JAPAN
JORDAN
KENYA
KIRIBATI
KUWAIT
LAOS
LEBANON
LESOTHO
LIBERIA
LIBYA
LUXEMBOURG
MACAU
MADAGASCAR
MALAWI
MALAYSIA
MALDIVES
MALI
MALTA
MARTINIQUE
MAURITANIA
MAURITIUS
MEXICO
MONACO
MONGOLIA
Country Name

MOROCCO
MOZAMBIQUE
NAMIBIA
NAURU
NEPAL
NETHERLANDS
NEW CALEDONIA
NEW ZEALAND
NICARAGUA
NIGER
NIGERIA
NORTH KOREA
NORWAY
OMAN
PAKISTAN
PANAMA
PAPUA NEW GUINEA
PARAGUAY
PERU
PHILIPPINES
POLAND
PORTUGAL
PUERTO RICO
QATAR
REUNION
ROMANIA
RWANDA
SAN MARINO
SAO TOME & PRINCIPE
SAUDI ARABIA
SENEGAL
SEYCHELLES
SIERRA LEONE
SINGAPORE
SOLOMON ISLANDS
SOMALIA
SOUTH AFRICA
SOUTH KOREA
SPAIN
Country Name

SRI LANKA
ST. KITTS-NEVIS
ST. LUCIA
ST. VINCENT
SUDAN
SURINAME
SWAZILAND
SWEDEN
SWITZERLAND AND LICHTENSTEIN
SYRIA
TAIWAN
TANZANIA
THAILAND
TOGO
TONGA
TRINIDAD & TOBAGO
TUNISIA
TURKEY
TUVALU
UGANDA
UNITED KINGDOM
UNITED ARAB EMIRATES
URUGUAY
USA
USSR
VANUATU
VENEZUELA
VIETNAM
VIRGIN ISLANDS UK
VIRGIN ISLANDS US
WESTERN SAHARA
WESTERN SAMOA
YEMEN
YUGOSLAVIA
ZAIRE
ZAMBIA
ZIMBABWE

## APPENDIX B

# **GloED DISTRIBUTION SECTOR LIST AND FUEL CATEGORIES**







## APPENDIX B

### GloED DISTRIBUTION SECTOR LIST AND FUEL CATEGORIES

<b>Sector Short Description</b>	<b>Sector Long Description</b>
Light Duty Gasoline Vehicles	Light Duty Gasoline Vehicles
Light Duty Gasoline Trucks	Light Duty Gasoline Trucks
Light Duty Diesel Trucks	Light Duty Diesel Trucks
Motorcycles (gasoline)	Motorcycles (gasoline)
Heavy Duty Diesel Trucks	Heavy Duty Diesel Trucks
Diesel Powered Motor Vehicles	Diesel Powered Motor Vehicles
Gasoline Powered Motor Veh.	Gasoline Powered Motor Vehicles
Motor Vehicles	All Road Motor Vehicles
Landfills	Landfills
RESIDENTIAL FUELWOOD EMIS	RESIDENTIAL FUELWOOD EMISSIONS, TOTAL
MOBILE LIGHT/LIMITED	MOBILE SOURCE LIGHT VEHICLE/LIMITED ACCESS HIGHWAY
MOBILE MED-HEAVY/LIMITED	MOBILE SOURCE MED-HEAVY VEHICLE/LIMITED ACCESS HIGHWAY
MOBILE LIGHT/URBAN-RURAL	MOBILE SOURCE LIGHT VEHICLE/URBAN-RURAL HIGHWAY
MOBILE MED-HEAVY/URB-RUR	MOBILE SOURCE MED-HEAVY VEHICLE/URBAN-RURAL HIGHWAY
MOBILE OFF-ROAD	MOBILE SOURCE OFF-ROAD VEHICLE
MOBILE VESSELS	MOBILE SOURCE VESSELS
MOBILE RAILWAY	MOBILE SOURCE RAILWAYS
MOBILE AIRCRAFT	MOBILE SOURCE AIRCRAFT
RESIDENTIAL WASTE BURN	RESIDENTIAL WASTE BURNING
REFINERY EMISSIONS	REFINERY EMISSIONS
PETROLEUM STORAGE & DIST	PETROLEUM PRODUCTS, STORAGE AND DISTRIBUTION

<b>Sector Short Description</b>	<b>Sector Long Description</b>
RESIDENTIAL OIL COMBUST	FOSSIL FUEL COMBUSTION, RESIDENTIAL OIL
RESIDENTIAL GAS COMBUST	FOSSIL FUEL COMBUSTION, RESIDENTIAL GAS
RESIDENTIAL COAL COMBUST	FOSSIL FUEL COMBUSTION, RESIDENTIAL COAL
COMMERCIAL OIL COMBUST	FOSSIL FUEL COMBUSTION, COMMERCIAL OIL
COMMERICAL GAS COMBUST	FOSSIL FUEL COMBUSTION, COMMERCIAL GAS
COMMERCIAL COAL COMBUST	FOSSIL FUEL COMBUSTION, COMMERCIAL COAL
INDUSTRIAL COAL COMBUST	FOSSIL FUEL COMBUSTION, INDUSTRIAL COAL PRODUCTION
INDUSTRIAL OIL COMBUST	FOSSIL FUEL COMBUSTION, INDUSTRIAL OIL PRODUCTION
INDUSTRIAL OIL USE	FOSSIL FUEL COMBUSTION, INDUSTRIAL CRUDE OIL USE
INDUSTRIAL GAS USE	FOSSIL FUEL COMBUSTION, INDUSTRIAL GAS USE
PUBLIC ELECT COAL USE	FOSSIL FUEL COMBUSTION, PUBLIC ELECTRICITY COAL USE
PUBLIC ELECT OIL USE	FOSSIL FUEL COMBUSTION, PUBLIC ELECTRICITY OIL USE
AUTOPRODUCER COAL USE	FOSSIL FUEL COMBUSTION, AUTOPRODUCER COAL USE
AUTOPRODUCER OIL USE	FOSSIL FUEL COMBUSTION, AUTOPRODUCER OIL USE
PUBLIC ELECT GAS USE	FOSSIL FUEL COMBUSTION, PUBLIC ELECTRICITY GAS USE
AUTOPRODUCER GAS USE	FOSSIL FUEL COMBUSTION, AUTOPRODUCER GAS USE
INDUSTRIAL WOOD USE	INDUSTRIAL WOOD COMBUSTION
INDUSTRIAL WASTE INCINER	INDUSTRIAL WASTE INCINERATION
TSDF'S	TRANSFER, STORAGE, AND DISPOSAL FACILITIES
MISCELLANEOUS FIRES	MISCELLANEOUS FIRES
PEAT EMISSIONS	PEAT EMISSIONS
GEO THERMAL EMISSIONS	GEO THERMAL EMISSIONS
ORGANIC CHEMICAL EMISSION	ORGANIC CHEMICAL EMISSIONS
MISCELLANEOUS MFRG EMISS	MISCELLANEOUS MANUFACTURING EMISSIONS
PAPER, PRINTING, OTHER	PAPER, PRINTING, AND OTHER EMISSIONS
POTW'S	PUBLICLY-OWNED TREATMENT WORK EMISSIONS

<b>Sector Short Description</b>	<b>Sector Long Description</b>
COKE PRODUCTION EMISSION	COKE PRODUCTION EMISSIONS
MOBILE SOURCES	MOBILE SOURCES
RESIDENTIAL COMBUSTION	RESIDENTIAL FUEL COMBUSTION
COMERCIAL COMBUSTION	COMERCIAL COMBUSTION
INDUSTRIAL COMBUSTION	INDUSTRIAL COMBUSTION
ELECTRICITY PRODUCTION	ELECTRICITY PRODUCTION
MISCELANEOUS	MISCELANEOUS, NEC
Rice Fields	Agricultural, Rice Fields
Residential fuelwood combusti	Residential - fuelwood combustion
MISC. EMISSION SRCS.	MISCELLANEOUS EMISSION SOURCES
OIL & NAT. GAS PROD.	OIL AND NATURAL GAS PRODUCTION
COKE PRODUCTION	COKE PRODUCTION
PETROLEUM REFINING	PETROLEUM REFINING
GASOLINE: STMC	GASOLINE: STORAGE, TRANSPORTATION, MARKETING, CONSUMPTION
DIST. FUEL OIL: STM	DISTILLATE FUEL OIL: STORAGE, TRANSPORTATION AND MARKETING
CRUDE OIL: STM	CRUDE OIL: STORAGE, TRANSPORTATION AND MARKETING
OTH. PETROLEUM: STM	OTHER PETROLEUM: STORAGE, TRANSPORTATION AND MARKETING
PAPER COATING	PAPER COATING
SURFACE COATING	SURFACE COATING OPERATIONS
PRINTING/PUBLISHING	PRINTING / PUBLISHING
RUBBER AND PLASTICS	RUBBER, PLASTICS, AND OTHER ORGANIC CHEMICAL MANUFACTURE
SOLVENT USE	SOLVENT USE
PAINT PRODUCTION	PAINT PRODUCTION
AUTOS & TRUCK PROD.	PRODUCTION OF AUTOMOBILES AND LIGHT TRUCKS
PULP & PAPER INDUST.	PULP AND PAPER INDUSTRY
ASPHALT PAVING	ASPHALT PAVING
BAKERIES	BAKERIES

<b>Sector Short Description</b>	<b>Sector Long Description</b>
DIESEL VEHICLES	DIESEL VEHICLES
AIRCRAFT LTO'S	AIRCRAFT LTO'S
OTH. IND./UTIL. ACT.	OTHER INDUSTRIAL / UTILITY ACTIVITIES
FUELWOOD UTILIZATION	FUELWOOD UTILIZATION
REFUSE DISPOSAL	REFUSE DISPOSAL
AGRICULTURE	AGRICULTURE
FORESTS	FORESTS
TUNDRAS	TUNDRAS
WETLANDS	WETLANDS
SOILS	SOILS (INCLUDING PEATLANDS)
ANIMALS	ANIMALS
GEOPHYSICAL PHENOM.	GEOPHYSICAL PHENOMENA (METEOROLOGICAL, GEOTHERMAL, ETC.)
OCEANS	OCEANS
NATURAL VEGETATION	NATURALLY GROWING VEGETATION
NATURAL GAS	NATURAL GAS - STORAGE, TRANSPORTATION, MARKETING
COAL - UTIL/INDUST	COAL APPLICATIONS - UTILITY AND INDUSTRIAL SOURCES
OIL - UTIL/INDUST	OIL APPLICATIONS - UTILITY AND INDUSTRIAL SOURCES
NATURAL GAS - U/I	NATURAL GAS APPLICATIONS - UTILITY AND INDUSTRIAL SOURCES
COAL - RES/COM	COAL APPLICATIONS - RESIDENTIAL AND COMMERCIAL SOURCES
OIL - RES/COM	OIL APPLICATIONS - RESIDENTIAL AND COMMERCIAL SOURCES
NATURAL GAS - R/C	NATURAL GAS APPLICATIONS - RESIDENTIAL AND COMMERCIAL SOURCES
MANAGED BURNING	MANAGED BURNING
COMBUSTION EXCLUDING INDUSTRY	COMBUSTION EXCLUDING INDUSTRY, FUEL CONSUMPTION
PRODUCTION OF ELECTRICITY	PRODUCTION OF ELECTRICITY, FUEL CONSUMPTION
DISTRICT HEATING	DISTRICT HEATING, FUEL CONSUMPTION
PRODUCT HEAT - DIST HEAT	PRODUCTION OF HEAT - DISTRICT HEATING, FUEL CONSUMPTION
COMBINED PRODUCTION HEAT/ELECT	COMBINED PRODUCTION OF HEAT/ELECTRICITY - DISTRICT HEATING, FUEL CONSUMPTION

<b>Sector Short Description</b>	<b>Sector Long Description</b>
COMBUST-COMMER, INST, RESIDENT	COMBUSTION - COMMERCIAL, INSTITUTIONAL, AND RESIDENTIAL, FUEL CONSUMPTION
COMMERCIAL COMBUSTION	COMBUSTION - COMMERCIAL FUEL CONSUMPTION
INSTITUTIONAL COMBUSTION	COMBUSTION - INSTITUTIONAL FUEL CONSUMPTION
RESIDENTIAL COMBUSTION	COMBUSTION - RESIDENTIAL FUEL CONSUMPTION
COMMERC/INSTITUT COMBUST TOTAL	COMMERCIAL/INSTITUTIONAL SOURCES, FUEL COMBUSTION, TOTAL
COMMERC/INSTITUT, GREENHOUSE C	COMMERCIAL/INSTITUTIONAL SOURCES, GREENHOUSE HORTICULTURE, FUEL COMBUSTION, TOTAL
COMMERC/INSTITUT, OTHER COMBUS	COMMERCIAL/INSTITUTIONAL SOURCES, OTHER, FUEL COMBUSTION, TOTAL
AGRICULTURAL SOURCES, FUEL COM	AGRICULTURAL SOURCES, FUEL COMBUSTION, TOTAL
AGRICULTURE-LIVESTOCK, FISH CO	AGRICULTURE, LIVESTOCK, FISHERIES - COMBUSTION TOTAL
AGRICULTURE-LIVESTOCK COMBUSTI	AGRICULTURE, LIVESTOCK, FISHERIES - LIVESTOCK COMBUSTION (FUEL CONSUMPTION)
AGRICULTURE-FISHERIES COMBUSTI	AGRICULTURE, LIVESTOCK, FISHERIES - FISHERIES COMBUSTION (FUEL CONSUMPTION)
FORESTRY COMBUST TOTAL	FORESTRY SOURCES, FUEL COMBUSTION, TOTAL
OTHER COMBUSTION TOTAL	OTHER SOURCES, FUEL COMBUSTION, TOTAL
ALL ENERGY COMBUST	ALL ENERGY (COMBUSTION & PTSD), TOTAL
ENERGY COMBUST TOTAL	ENERGY COMBUSTION ACTIVITIES, TOTAL
ENERG & TRANSFOR.TOT	ENERGY AND TRANSFORMATION INDUSTRIES, COMBUSTION ACTIVITIES, TOTAL
ELECT&HEAT GEN. TOT	ENERGY AND TRANSFORMATION INDUSTRIES, ELECTRICITY & HEAT GENERATION, FUEL COMBUSTION, TOTAL
PUBL.ELECT.GEN. TOT	ENERGY AND TRANSFORMATION INDUSTRIES, PUBLIC ELECTRICITY GENERATION, FUEL COMBUSTION, TOTAL
INDUS. AUTOGEN TOT	ENERGY AND TRANSFORMATION INDUSTRIES, INDUSTRIAL/AUTOGENERATION, FUEL COMBUSTION, TOTAL
COMBINED HEAT&PWR TOT	ENERGY AND TRANSFORMATION INDUSTRIES, COMBINED HEAT & POWER, FUEL COMBUSTION, TOTAL
COMB. HEAT&PWR PUBLIC TOT	ENERGY AND TRANSFORMATION INDUSTRIES, COMBINED HEAT & POWER, PUBLIC, FUEL COMBUSTION, TOTAL
COMB. HEAT&PWR PRI TOT	ENERGY AND TRANSFORMATION INDUSTRIES, COMBINED HEAT & POWER, PRIVATE, FUEL COMBUSTION, TOTAL
DISTRICT HEAT TOT	ENERGY AND TRANSFORMATION INDUSTRIES, DISTRICT HEATING, FUEL COMBUSTION, TOTAL
PETROLEUM REFIN. TOT	ENERGY AND TRANSFORMATION INDUSTRIES, PETROLEUM REFINING, FUEL COMBUSTION, TOTAL
SOLID FUEL TRANS TOT	ENERGY AND TRANSFORMATION INDUSTRIES, SOLID FUEL TRANSFORMATION, FUEL COMBUSTION, TOTAL
ENERG&TRANS INDUS, ELEC&HEAT	ENERGY AND TRANSFORMATION INDUSTRIES, ELECTRICITY & HEAT GENERATION, COKE FACTORIES, FUEL COMBUST, TOTAL
ENERG&TRANS INDUS, ELEC&HEAT	ENERGY AND TRANSFORMATION INDUSTRIES, ELECTRICITY & HEAT GENERATION, WASTE COMBUSTION, TOTAL

<b>Sector Short Description</b>	<b>Sector Long Description</b>
ENERG&TRANS INDUS, COKES&BF	ENERGY AND TRANSFORMATION INDUSTRIES, COKES & BF GAS PRODUCTION, FOSSIL FUEL, TOTAL
ENERG&TRANS INDUS, ELECTRICITY	ENERGY AND TRANSFORMATION INDUSTRIES, ELECTRICITY PRODUCTION, COKE PRODUCTION, TOTAL
ENERG&TRANS INDUS, ELECTRICITY	ENERGY AND TRANSFORMATION INDUSTRIES, ELECTRICITY PRODUCTION, GAS MINING, TOTAL
ENERG&TRANS INDUS, ELECTRICITY	ENERGY AND TRANSFORMATION INDUSTRIES, ELECTRICITY PRODUCTION, COAL MINING, TOTAL
ENERG&TRANS INDUS, OTHER TOT	ENERGY AND TRANSFORMATION INDUSTRIES, OTHER, FUEL COMBUSTION, TOTAL
INDUSTRY SOURCES TOT	INDUSTRIAL SOURCES, FUEL COMBUSTION, TOTAL
IRON & STEEL TOTAL	INDUSTRIAL SOURCES, IRON AND STEEL INDUSTRIES, FUEL COMBUSTION, TOTAL
CHEMICAL INDUS. TOT	INDUSTRIAL SOURCES, CHEMICAL INDUSTRIES, FUEL COMBUSTION, TOTAL
PAPER,PULP,PRINT TOT	INDUSTRIAL SOURCES, PAPER, PULP AND PRINT INDUSTRIES, FUEL COMBUSTION, TOTAL
INDUS FOOD TOTAL	INDUSTRIAL SOURCES, FOOD, FUEL COMBUSTION, TOTAL
OTHER INDUSTRIES TOT	INDUSTRIAL SOURCES, OTHER, FUEL COMBUSTION, TOTAL
TRANSPORT SOURCE TOT	TRANSPORTATION SOURCES, ALL TRANSPORTATION, FUEL COMBUSTION, TOTAL
AIR TRANSPORT TOTAL	TRANSPORTATION SOURCES, AIR TRANSPORTATION (DOMESTIC), FUEL COMBUSTION, TOTAL
INTERNAT AIR TOTAL	TRANSPORTATION SOURCES, INTERNATIONAL AIR TRANSPORTATION (BUNKERS), FUEL COMBUSTION, TOTAL
ROAD TRANSPORT TOTAL	TRANSPORTATION SOURCES, ALL ROAD TRANSPORTATION, FUEL COMBUSTION, TOTAL
AUTO AND LIGHT DUTY VEHICLES	TRANSPORTATION SOURCES, AUTOMOBILES AND LIGHT DUTY VEHICLES
LIGHT DUTY - HIGHWAY DRIVING	TRANSPORTATION SOURCES, AUTOMOBILES AND LIGHT DUTY VEHICLES, LIGHT DUTY VEHICLES - HIGHWAY DRIVING (TOTAL MILEAGE)
LIGHT DUTY - ROAD DRIVING	TRANSPORTATION SOURCES, AUTOMOBILES AND LIGHT DUTY VEHICLES, LIGHT DUTY VEHICLES - ROAD DRIVING (TOTAL MILEAGE)
LIGHT DUTY - URBAN DRIVING	TRANSPORTATION SOURCES, AUTOMOBILES AND LIGHT DUTY VEHICLES, LIGHT DUTY VEHICLES - URBAN DRIVING (TOTAL MILEAGE)
LIGHT DUTY - RURAL DRIVING	TRANSPORTATION SOURCES, AUTOMOBILES AND LIGHT DUTY VEHICLES, LIGHT DUTY VEHICLES - RURAL DRIVING (TOTAL MILEAGE)
PASSENGER CARS TOT	TRANSPORTATION SOURCES, ROAD TRANSPORTATION, PASSENGER CARS, FUEL COMBUSTION, TOTAL
PASSENG W/CAT TOT	TRANSPORTATION SOURCES, ROAD TRANSPORTATION, PASSENGER CARS, % WITH CATALYSTS, FUEL COMBUSTION, TOTAL
LIGHT-DUTY TRUCK TOT	TRANSPORTATION SOURCES, ROAD TRANSPORTATION, LIGHT-DUTY TRUCKS, FUEL COMBUSTION, TOTAL
LIGHT-DUTY T/W/CAT TOT	TRANSPORTATION SOURCES, ROAD TRANSPORTATION, LIGHT-DUTY TRUCKS, % WITH CATALYSTS, FUEL COMBUSTION, TOTAL

<b>Sector Short Description</b>	<b>Sector Long Description</b>
HEAVY-DUTY T&A TOT	TRANSPORTATION SOURCES, ROAD TRANSPORTATION, HEAVY-DUTY TRUCKS & AUTOBUSES, FUEL COMBUSTION, TOTAL
HEAVY DUTY AND AUTOBUSES	TRANSPORTATION SOURCES, HEAVY DUTY VEHICLES AND AUTOBUSES (TOTAL MILEAGE)
HEAVY DUTY - HIGHWAY DRIVING	TRANSPORTATION SOURCES, HEAVY DUTY VEHICLES AND AUTOBUSES, HEAVY DUTY VEHICLES - HIGHWAY DRIVING (TOTAL MILEAGE)
HEAVY DUTY - ROAD DRIVING	TRANSPORTATION SOURCES, HEAVY DUTY VEHICLES AND AUTOBUSES, HEAVY DUTY VEHICLES - ROAD DRIVING (TOTAL MILEAGE)
HEAVY DUTY - URBAN DRIVING	TRANSPORTATION SOURCES, HEAVY DUTY VEHICLES AND AUTOBUSES, HEAVY DUTY VEHICLES - URBAN DRIVING (TOTAL MILEAGE)
HEAVY DUTY - RURAL DRIVING	TRANSPORTATION SOURCES, HEAVY DUTY VEHICLES AND AUTOBUSES, HEAVY DUTY VEHICLES - RURAL DRIVING (TOTAL MILEAGE)
MOTORCYCLES TOTAL	TRANSPORTATION SOURCES, ROAD TRANSPORTATION, MOTORCYCLES, FUEL COMBUSTION, TOTAL
MOTORCYCLES <50 CM3	TRANSPORTATION SOURCES, MOTORCYCLES <50 CM3 (TOTAL MILEAGE)
MOTORCYCLES >50 CM3	TRANSPORTATION SOURCES, MOTORCYCLES >50 CM3 (TOTAL MILEAGE)
MOTORCYCLES >50 CM3 - HIGHWAY	TRANSPORTATION SOURCES, MOTORCYCLES >50 CM3, HIGHWAY DRIVING (TOTAL MILEAGE)
MOTORCYCLES >50 CM3 - ROAD	TRANSPORTATION SOURCES, MOTORCYCLES >50 CM3, ROAD DRIVING (TOTAL MILEAGE)
MOTORCYCLES >50 CM3 - URBAN	TRANSPORTATION SOURCES, MOTORCYCLES >50 CM3, URBAN DRIVING (TOTAL MILEAGE)
MOTORCYCLES >50 CM3 - RURAL	TRANSPORTATION SOURCES, MOTORCYCLES >50 CM3, RURAL DRIVING (TOTAL MILEAGE)
RAILWAYS TOTAL	TRANSPORTATION SOURCES, RAILWAYS, FUEL COMBUSTION, TOTAL
INTERNAL NAVIGAT TOT	TRANSPORTATION SOURCES, INTERNAL NAVIGATION, FUEL COMBUSTION, TOTAL
INTERNATIONAL MARINE	TRANSPORTATION SOURCES, INTERNATIONAL MARINE (BUNKERS), FUEL COMBUSTION, TOTAL
TRANSPORT, VESSELS, FUEL COM	TRANSPORTATION SOURCES, VESSELS, FUEL COMBUSTION, TOTAL
TRANSPORT, FARM MACHINERY, FUE	TRANSPORTATION SOURCES, FARM MACHINERY, FUEL COMBUSTION, TOTAL
TRANSPORT, CONSTRUCTION MACHIN	TRANSPORTATION SOURCES, CONSTRUCTION MACHINERY, FUEL COMBUSTION, TOTAL
TRANSPORT, INDUSTRIAL MACHIN	TRANSPORTATION SOURCES, INDUSTRIAL MACHINERY, FUEL COMBUSTION, TOTAL
TRANSPORT, INTERNAT TRANS	TRANSPORTATION SOURCES, INTERNATIONAL TRANSPORT, FUEL COMBUSTION, TOTAL
TRANSPORT, OTHER TOTAL	TRANSPORTATION SOURCES, OTHER, FUEL COMBUSTION, TOTAL
EVAPORATIVE EMISSIONS, TOTAL	TRANSPORTATION SOURCES, EVAPORATIVE EMISSIONS, TOTAL
GASOLINE EVAPORATION FROM CARS	TRANSPORTATION SOURCES, EVAPORATIVE EMISSIONS, GASOLINE EVAPORATION FROM CARS (TOTAL MILEAGE)
TRANSPORT (EXCEPT ROAD), TOTAL	TRANSPORTATION SOURCES (EXCEPT ROAD) (FUEL CONSUMPTION), TOTAL

<b>Sector Short Description</b>	<b>Sector Long Description</b>
INLAND WATERWAY AND COAST NAV	TRANSPORTATION SOURCES (EXCEPT ROAD), INLAND WATERWAYS AND COASTAL NAVIGATION (FUEL CONSUMPTION)
HARBOURS	TRANSPORTATION SOURCES (EXCEPT ROAD), HARBOURS (FUEL CONSUMPTION)
TRANSPORT, OTHER OFF-HIGHWAY	TRANSPORTATION SOURCES (EXCEPT ROAD), OTHER OFF-HIGHWAY VEHICLES (FUEL COMSUMPTION)
ENERGY PTSD TOTAL	ENERGY PRODUCTION, TRANSMISSION, STORAGE, AND DISTRIBUTION (PTSD) SOURCES, TOTAL
CRUDE OIL EXTRAC TOTAL	ENERGY PTSD SOURCES, CRUDE OIL EXTRACTION, TOTAL
CRUDE OIL PREPRODUCTION TOTAL	ENERGY PTSD SOURCES, CRUDE OIL EXTRACTION, PRE-PRODUCTION, TOTAL
CRUDE OIL PROD&PROCES TOTAL	ENERGY PTSD SOURCES, CRUDE OIL EXTRACTION, PRODUCTION & CENTRAL PROCESSING, TOTAL
CRUDE OIL VENT&FLARE TOTAL	ENERGY PTSD SOURCES, CRUDE OIL EXTRACTION, VENTING AND FLARING, TOTAL
CRUDE OIL TRANSMISSION TOTAL	ENERGY PTSD SOURCES, CRUDE OIL EXTRACTION, TRANSMISSION & STORAGE, TOTAL
CRUDE OIL DISTRIBUTION TOTAL	ENERGY PTSD SOURCES, CRUDE OIL EXTRACTION, DISTRIBUTION (PIPELINE ONLY), TOTAL
NATURAL GAS EXTRACT TOTAL	ENERGY PTSD SOURCES, NATURAL GAS EXTRACTION, TOTAL
NATURAL GAS PREPRODUCTION TOTA	ENERGY PTSD SOURCES, NATURAL GAS EXTRACTION, PRE-PRODUCTION, TOTAL
NATURAL GAS PROD&PROC TOTAL	ENERGY PTSD SOURCES, NATURAL GAS EXTRACTION, PRODUCTION & CENTRAL PROCESSING, TOTAL
NATURAL GAS VENT&FLAR TOTAL	ENERGY PTSD SOURCES, NATURAL GAS EXTRACTION, VENTING AND FLARING, TOTAL
NATURAL GAS TRANSMISS TOTAL	ENERGY PTSD SOURCES, NATURAL GAS EXTRACTION, TRANSMISSION, TOTAL
NATURAL GAS DISTRIBUT TOTAL	ENERGY PTSD SOURCES, NATURAL GAS EXTRACTION, DISTRIBUTION, TOTAL
COAL MINING TOTAL	ENERGY PTSD SOURCES, COAL MINING, TOTAL
COAL MINING VENTILATION TOTAL	ENERGY PTSD SOURCES, COAL MINING, VENTILATION SYSTEMS, TOTAL
COAL MINING VENTILATION SURFAC	ENERGY PTSD SOURCES, COAL MINING, VENTILATION SYSTEMS, SURFACE, TOTAL
COAL MINING VENTILATION UNDERG	ENERGY PTSD SOURCES, COAL MINING, VENTILATION SYSTEMS, UNDERGROUND, TOTAL
COAL DEGASIFICATION TOTAL	ENERGY PTSD SOURCES, COAL MINING, DE-GASIFICATION SYSTEMS, TOTAL
COAL POST-MINING TOTAL	ENERGY PTSD SOURCES, COAL MINING, POST-MINING ACTIVITIES, TOTAL
COAL POST-MINING SURFACE	ENERGY PTSD SOURCES, COAL MINING, POST-MINING ACTIVITIES, SURFACE, TOTAL
COAL POST-MINING UNDERGROUND	ENERGY PTSD SOURCES, COAL MINING, POST-MINING ACTIVITIES, UNDERGROUND, TOTAL
ENERGY PTSD, FUEL DISTRIBUT	ENERGY PTSD SOURCES, FUEL DISTRIBUTION, TOTAL
ENERGY PTSD, GASOLINE DIST	ENERGY PTSD SOURCES, FUEL DISTRIBUTION, GASOLINE, TOTAL



<b>Sector Short Description</b>	<b>Sector Long Description</b>
PROCESSES, TOTAL	PRODUCTION PROCESSES, TOTAL
PROCESSES, CHEMICAL TOTAL	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, TOTAL
PROCESSES, CHEM 1,2-DICHLOROET	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, 1,2-DICHLOROETHANE AND VINYLCHLORIDE
PROCESSES, CHEM 1,2-DICHLOROET	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, 1,2-DICHLOROETHANE PRODUCTION WITHOUT VINYLCHLORIDE
PROCESSES, CHEM AMMONIUM NITRA	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, AMMONIUM NITRATE
PROCESSES, CHEM BASIC AMMONIA	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, BASIC INDUSTRIAL CHEMICALS, AMMONIA
PROCESSES, CHEM BASIC NITRIC A	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, BASIC INDUSTRIAL CHEMICALS, NITRIC ACID
PROCESSES, CHEM BASIC CHEMICAL	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, BASIC INDUSTRIAL CHEMICALS, TOTAL
PROCESSES, CHEM CARBON BLACK	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, CARBON BLACK
PROCESSES, CHEM ETHYLENE AND P	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, ETHYLENE AND PROPYLENE
PROCESSES, CHEM FORMALDEHYDE	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, FORMALDEHYDE
PROCESSES, CHEM NP, NK, NPK FE	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, NP, NK, NPK FERTILIZERS
PROCESSES, CHEM NYLON	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, NYLON
PROCESSES, CHEM PAINT	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, PAINTS, VARNISHES AND LACQUERS, TOTAL
PROCESSES, CHEM PESTICIDES	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, PESTICIDES
PROCESSES, CHEM PHENOLO	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, PHENOLO
PROCESSES, CHEM PHTHALIC ANHYD	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, PHTHALIC ANHYDRIDE
PROCESSES, CHEM POLYETHYLENE H	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, POLYETHYLENE HIGH DENSITY
PROCESSES, CHEM POLYETHYLENE L	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, POLYETHYLENE LOW DENSITY
PROCESSES, CHEM POLYPROPYLENE	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, POLYPROPYLENE
PROCESSES, CHEM POLYSTYRENE	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, POLYSTYRENE
PROCESSES, CHEM POLYVINYLCHLOR	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, POLYVINYLCHLORIDE
PROCESSES, CHEM SOAP	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, SOAP AND CLEANING PREPARATIONS, PERFUMES, COSMETICS AND OTHER TOILET PREPARATIO
PROCESSES, CHEM STYRENE-BUTADI	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, STYRENE-BUTADIENE LATEX
PROCESSES, CHEM STYRENE-BUTADI	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, STYRENE-BUTADIENE RUBBER (SBR)
PROCESSES, CHEM SULFURIC ACID	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, SULFURIC ACID

<b>Sector Short Description</b>	<b>Sector Long Description</b>
PROCESSES, CHEM SYN RES	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, SYNTHETIC RESINS, PLASTIC AND MAN-MADE FIBERS (EXCEPT GLASS)
PROCESSES, CHEM OTHER SYNTHETI	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, OTHER SYNTHETIC RESINS, TOTAL
PROCESSES, CHEM UREA	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, UREA
PROCESSES, CHEM VINYLCHLORIDE	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, VINYLCHLORIDE WITHOUT 1,2-DICHLOROETHANE
PROCESSES, CHEM OTHER	PRODUCTION PROCESSES, CHEMICAL PRODUCTS, OTHER, TOTAL
PROCESSES, NON-METAL MINERAL	PRODUCTION PROCESSES, NON-METALLIC MINERAL PRODUCTS, TOTAL
PROCESSES, NON-METAL MIN CEM/L	PRODUCTION PROCESSES, NON-METALLIC MINERAL PRODUCTS, CEMENT, LIME, DOLOMITE, AND PLASTER, TOTAL
PROCESSES, NON-METAL MIN CEM P	PRODUCTION PROCESSES, NON-METALLIC MINERAL PRODUCTS, CEMENT, TOTAL
PROCESSES, NON-METAL LIM PRO	PRODUCTION PROCESSES, NON-METALLIC MINERAL PRODUCTS, LIME
PROCESSES, DOLOMITE	PRODUCTION PROCESSES, NON-METALLIC MINERAL PRODUCTS, DOLOMITE
PROCESSES, PLASTER	PRODUCTION PROCESSES, NON-METALLIC MINERAL PRODUCTS, PLASTER
PROCESSES, NON-METALLIC MINERA	PRODUCTION PROCESSES, NON-METALLIC MINERAL PRODUCTS, OTHER, TOTAL
PROCESSES, METALS NEC,	PRODUCTION PROCESSES, METALS NEC, TOTAL
PROCESSES, METALS & OTHER	PRODUCTION PROCESSES, METALS NEC, METALS & OTHER, Aluminum, TOTAL
PROCESSES, NON-ENERGY	PRODUCTION PROCESSES, METALS NEC, NON-ENERGY USE, TOTAL
PROCESSES, PRIM IRON AND STEEL	PRODUCTION PROCESSES, PRIMARY IRON AND STEEL INDUSTRY
PROCESSES, METALLURG COKE OVEN	PRODUCTION PROCESSES, PRIMARY IRON AND STEEL, METALLURGICAL COKE OVEN PLANTS
PROCESSES, SINTER PLANTS	PRODUCTION PROCESSES, PRIMARY IRON AND STEEL, SINTER PLANTS
PROCESSES, STEEL	PRODUCTION PROCESSES, PRIMARY IRON AND STEEL, STEEL
PROCESSES, PIG IRON	PRODUCTION PROCESSES, PRIMARY IRON AND STEEL, PIG IRON
PROCESSES, NONFERROUS METAL	PRODUCTION PROCESSES, NONFERROUS METAL INDUSTRY
PROCESSES, PRIMARY ALUMINUM	PRODUCTION PROCESSES, NONFERROUS METAL INDUSTRY, PRIMARY ALUMINUM
PROCESSES, PRIMARY ZINC	PRODUCTION PROCESSES, NONFERROUS METAL INDUSTRY, PRIMARY ZINC
PROCESSES, PRIMARY LEAD	PRODUCTION PROCESSES, NONFERROUS METAL INDUSTRY, PRIMARY LEAD

<b>Sector Short Description</b>	<b>Sector Long Description</b>
PROCESSES, SECONDARY LEAD	PRODUCTION PROCESSES, NONFERROUS METAL INDUSTRY, SECONDARY LEAD
PROCESSES, BUILDING MATERIALS	PRODUCTION PROCESSES, BUILDING MATERIALS, TOTAL
PROCESSES, CEMENT AND LIME	PRODUCTION PROCESSES, BUILDING MATERIALS, CEMENT AND LIME
PROCESSES, GLASS	PRODUCTION PROCESSES, BUILDING MATERIALS, GLASS
PROCESSES, TILES	PRODUCTION PROCESSES, BUILDING MATERIALS, TILES
PROCESSES, BRICKS	PRODUCTION PROCESSES, BUILDING MATERIALS, BRICKS
PROCESSES, OTHER INDUSTRIES	PRODUCTION PROCESSES, OTHER INDUSTRIES, TOTAL
PROCESSES, PAPER PULP	PRODUCTION PROCESSES, OTHER INDUSTRIES, PAPER PULP
PROCESSES, FERROUS MEAL FOUNDR	PRODUCTION PROCESSES, OTHER INDUSTRIES, FERROUS METAL FOUNDRIES
PROCESSES, FOOD, TOTAL	PRODUCTION PROCESSES, FOOD, TOTAL
PROCESSES, BREAD	PRODUCTION PROCESSES, FOOD, BREAD
PROCESSES, WINE	PRODUCTION PROCESSES, FOOD, WINE
PROCESSES, BEER	PRODUCTION PROCESSES, FOOD, BEER
PROCESSES, NON-ALCOHOLIC BEVER	PRODUCTION PROCESSES, FOOD, NON-ALCOHOLIC BEVERAGES
SOLVENT EVAPORATION, TOTAL	SOLVENT EVAPORATION, TOTAL
PAINT APPLICATION	SOLVENT EVAPORATION, PAINT APPLICATION
MANUFACTURE OF AUTOMOBILES	SOLVENT EVAPORATION, PAINT APPLICATION, MANUFACTURE OF AUTOMOBILES (NUMBER OF VEHICLES)
SHIP BUILDING	SOLVENT EVAPORATION, PAINT APPLICATION, SHIP BUILDING (PAINT CONSUMPTION)
OTHER METAL ARTICLES	SOLVENT EVAPORATION, PAINT APPLICATION, OTHER METAL ARTICLES (PAINT CONSUMPTION)
WOOD PRODUCTS	SOLVENT EVAPORATION, PAINT APPLICATION, WOOD PRODUCTS (PAINT CONSUMPTION)
CONSTRUCTION AND BUILDINGS	SOLVENT EVAPORATION, PAINT APPLICATION, CONSTRUCTION AND BUILDINGS (PAINT CONSUMPTION)
VEHICLES REFINISHING	SOLVENT EVAPORATION, PAINT APPLICATION, VEHICLES REFINISHING (PAINT CONSUMPTION)
DOMESTIC USE	SOLVENT EVAPORATION, PAINT APPLICATION, DOMESTIC USE (POPULATION)
EVAPORATION EXCEPT PAINT APP,	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), TOTAL
USE OF DOMESTIC EXCEPT PAINT	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), USE OF DOMESTIC PRODUCTS (POPULATION)
METAL DEGREASING	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), METAL DEGREASING (SOLVENT CONSUMPTION)

<b>Sector Short Description</b>	<b>Sector Long Description</b>
DRY CLEANING	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), DRY CLEANING (POPULATION)
PRINTING INDUSTRY	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), PRINTING INDUSTRY (INK CONSUMPTION)
FAT EDIBL/NON EDIBL OIL EXTRAC	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), FAT EDIBLE AND NON EDIBLE OIL EXTRACTION (PRODUCTION)
PAINTS MANUFACTURING	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), PAINTS MANUFACTURING (PRODUCTION)
INKS PRODUCTION	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), INKS PRODUCTION (PRODUCTION)
PROCESSING OF POLYMERS	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), PROCESSING OF POLYMERS (PRODUCTION)
PROCESSING OF ELASTOMERS	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), PROCESSING OF ELASTOMERS (PRODUCTION)
APPLICA OF GLUES AND ADHESIVES	SOLVENT EVAPORATION (EXCEPT PAINT APPLICATION), APPLICATION OF GLUES AND ADHESIVES (POPULATION)
NATURAL AND MISCELLANEOUS, TOT	NATURAL AND MISCELLANEOUS, TOTAL
VEGETATION, TOTAL	NATURAL AND MISCELLANEOUS, VEGETATION, TOTAL
CONIFEROUS FORESTS	NATURAL AND MISCELLANEOUS, VEGETATION, CONIFEROUS FORESTS (AREA)
DECIDUOUS FORESTS	NATURAL AND MISCELLANEOUS, VEGETATION, DECIDUOUS FORESTS (AREA)
OTHER VEGETATION	NATURAL AND MISCELLANEOUS, VEGETATION, OTHER VEGETATION (AREA)
NATURAL (EXCEPT VEGETATION)	NATURAL AND MISCELLANEOUS, NATURAL (EXCEPT VEGETATION) (AREA)
FOREST FIRES	NATURAL AND MISCELLANEOUS, NATURAL (EXCEPT VEGETATION), FOREST FIRES (AREA)
HUMID ZONES (MARSHES, SWAMPS)	NATURAL AND MISCELLANEOUS, NATURAL (EXCEPT VEGETATION), HUMID ZONES (MARSHES, SWAMPS) (AREA)
LAKES	NATURAL AND MISCELLANEOUS, NATURAL (EXCEPT VEGETATION), LAKES (AREA)
PEAT BOGS	NATURAL AND MISCELLANEOUS, NATURAL (EXCEPT VEGETATION), PEAT BOGS (AREA)
GEO THERMAL	NATURAL AND MISCELLANEOUS, NATURAL (EXCEPT VEGETATION), GEO THERMAL (AREA)

<b>Sector Short Description</b>	<b>Sector Long Description</b>
MISCELLANEOUS, TOTAL	NATURAL AND MISCELLANEOUS, MISCELLANEOUS (AREA), TOTAL
STRUCTURAL FIRES	NATURAL AND MISCELLANEOUS, MISCELLANEOUS, STRUCTURAL FIRES
CONSTRUCTION FIRES	NATURAL AND MISCELLANEOUS, MISCELLANEOUS, CONSTRUCTION FIRES
PUBLICLY OWNED TREATMENT WORKS	NATURAL AND MISCELLANEOUS, MISCELLANEOUS, PUBLICLY OWNED TREATMENT WORKS
AGRICULTURE-LIVESTOCK, FISH, T	AGRICULTURE, LIVESTOCK, FISHERIES, TOTAL (EXCEPT COMBUSTION)
AGRICULTURAL (EXCEPT COMBUST)	AGRICULTURE, LIVESTOCK, FISHERIES - AGRICULTURAL (EXCEPT COMBUSTION) (AREA)
AGRICULTURAL STRAW BURNING	AGRICULTURE, LIVESTOCK, FISHERIES - AGRICULTURAL (EXCEPT COMBUSTION), AGRICULTURAL STRAW BURNING (AREA)
RICE FIELDS	AGRICULTURE, LIVESTOCK, FISHERIES - AGRICULTURAL (EXCEPT COMBUSTION), RICE FIELDS (AREA)
AGRICULTURE, FISHERIES, TOTAL	AGRICULTURE, FISHERIES, TOTAL
LIVESTOCK, TOTAL	AGRICULTURE, LIVESTOCK, TOTAL
CATTLE (BOVINES)	AGRICULTURE, LIVESTOCK, CATTLE (BOVINES)
CATTLE, BEEF	AGRICULTURE, LIVESTOCK, CATTLE, BEEF (BOVINES)
CATTLE, BEEF ON FEED	AGRICULTURE, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
CATTLE, BEEF NOT ON FEED	AGRICULTURE, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
CATTLE, DAIRY	AGRICULTURE, LIVESTOCK, CATTLE, DAIRY (BOVINES)
PIGS	AGRICULTURE, LIVESTOCK, PIGS
HORSES/MULES/ASSES	AGRICULTURE, LIVESTOCK, HORSES/MULES/ASSES
HORSES	AGRICULTURE, LIVESTOCK, HORSES
MULES	AGRICULTURE, LIVESTOCK, MULES
DONKEYS	AGRICULTURE, LIVESTOCK, DONKEYS
SHEEP (OVINES)	AGRICULTURE, LIVESTOCK, SHEEP (OVINES)
GOATS	AGRICULTURE, LIVESTOCK, GOATS
BUFFALO	AGRICULTURE, LIVESTOCK, BUFFALO
CAMELS & LLAMAS	AGRICULTURE, LIVESTOCK, CAMELS & LLAMAS

<b>Sector Short Description</b>	<b>Sector Long Description</b>
POULTRY	AGRICULTURE, LIVESTOCK, POULTRY
POULTRY (CAGED LAYERS)	AGRICULTURE, LIVESTOCK, POULTRY (CAGED LAYERS)
POULTRY (BROILERS)	AGRICULTURE, LIVESTOCK, POULTRY (BROILERS)
POULTRY (TURKEYS)	AGRICULTURE, LIVESTOCK, POULTRY (TURKEYS)
OTHER BEASTS	AGRICULTURE, LIVESTOCK, OTHER BEASTS
CATTLE (BOVINES), ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CATTLE (BOVINES)
CATTLE, BEEF	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CATTLE, BEEF (BOVINES)
CATTLE, BEEF ON FEED	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CATTLE, BEEF ON FEED (BOVINES)
CATTLE, BEEF NOT ON FEED	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CATTLE, BEEF NOT ON FEED (BOVINES)
CATTLE, DAIRY	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CATTLE, DAIRY (BOVINES)
PIGS, ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, PIGS
HORSES/MULES/ASSES, ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, HORSES/MULES/ASSES
HORSES, ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, HORSES
MULES, ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, MULES
DONKEYS, ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, DONKEYS
SHEEP (OVINES), ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, SHEEP (OVINES)
GOATS, ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, GOATS
BUFFALO, ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, BUFFALO
CAMELS & LLAMAS, ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CAMELS & LLAMAS
POULTRY, ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, POULTRY
POULTRY (CAGED LAYERS), ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, POULTRY (CAGED LAYERS)
POULTRY (BROILERS), ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, POULTRY (BROILERS)
POULTRY (TURKEYS), ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, POULTRY (TURKEYS)
OTHER BEASTS, ENT FERMENT	AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, OTHER BEASTS

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-LIVESTOCK, TOTAL CATTLE	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CATTLE (BOVINES)
AAW-LIVESTOCK, TOTAL CATTLE-BE	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CATTLE, BEEF (BOVINES)
AAW-LIVESTOCK, TOTAL BEEF ON F	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CATTLE, BEEF ON FEED (BOVINES)
AAW-LIVESTOCK, TOTAL BEEF NO F	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-LIVESTOCK, TOTAL DAIRY	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CATTLE, DAIRY (BOVINES)
AAW-LIVESTOCK, TOTAL PIGS	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL PIGS
AAW-LIVESTOCK, TOTAL H/M/A	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL HORSES/MULES/ASSES
AAW-LIVESTOCK, TOTAL HORSES	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL HORSES
AAW-LIVESTOCK, TOTAL MULES	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL MULES
AAW-LIVESTOCK, TOTAL DONKEYS	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL DONKEYS
AAW-LIVESTOCK, TOTAL SHEEP	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL SHEEP (OVINES)
AAW-LIVESTOCK, TOTAL GOATS	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL GOATS
AAW-LIVESTOCK, TOTAL BUFFALO	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL BUFFALO
AAW-LIVESTOCK, TOTAL CAMELS&LL	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CAMELS & LLAMAS
AAW-LIVESTOCK, TOTAL POULTRY	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL POULTRY
AAW-LIVESTOCK, TOTAL POUL (CAG	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL POULTRY (CAGED LAYERS)
AAW-LIVESTOCK, TOTAL POUL (BRO	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL POULTRY (BROILERS)
AAW-LIVESTOCK, TOTAL POUL (TUR	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL POULTRY (TURKEYS)
AAW-LIVESTOCK, TOTAL OTHER BEA	AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL OTHER BEASTS
AAW-ANAEROBIC, CATTLE	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, CATTLE (BOVINES)
AAW-ANAEROBIC, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-ANAEROBIC, CAT-BEEF ON FEE	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-ANAEROBIC, CAT-BEEF NO FEE	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-ANAEROBIC, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-ANAEROBIC, PIGS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, PIGS
AAW-ANAEROBIC, HORSES/MULES/AS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, HORSES/MULES/ASSES
AAW-ANAEROBIC, HORSES	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, HORSES

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-ANAEROBIC, MULES	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, MULES
AAW-ANAEROBIC, DONKEYS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, DONKEYS
AAW-ANAEROBIC, SHEEP	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, SHEEP (OVINES)
AAW-ANAEROBIC, GOATS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, GOATS
AAW-ANAEROBIC, BUFFALO	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, BUFFALO
AAW-ANAEROBIC, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, CAMELS & LLAMAS
AAW-ANAEROBIC, POULTRY	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, POULTRY
AAW-ANAEROBIC, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-ANAEROBIC, POULTRY (BROILE	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, POULTRY (BROILERS)
AAW-ANAEROBIC, POULTRY (TURKEY	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, POULTRY (TURKEYS)
AAW-ANAEROBIC, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC LAGOON, LIVESTOCK, OTHER BEASTS
AAW-SLURRY, CATTLE	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, CATTLE (BOVINES)
AAW-SLURRY, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-SLURRY, CATTLE-BEEF ON FEE	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-SLURRY, CATTLE-BEEF NO FEE	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-SLURRY, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-SLURRY, PIGS	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, PIGS
AAW-SLURRY, HORSES/MULES/ASSES	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, HORSES/MULES/ASSES
AAW-SLURRY, HORSES	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, HORSES
AAW-SLURRY, MULES	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, MULES
AAW-SLURRY, DONKEYS	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, DONKEYS
AAW-SLURRY, SHEEP	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, SHEEP (OVINES)
AAW-SLURRY, GOATS	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, GOATS
AAW-SLURRY, BUFFALO	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, BUFFALO
AAW-SLURRY, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, CAMELS & LLAMAS



<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-SLURRY, POULTRY	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, POULTRY
AAW-SLURRY, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-SLURRY, POULTRY (BROILERS)	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, POULTRY (BROILERS)
AAW-SLURRY, POULTRY (TURKEYS)	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, POULTRY (TURKEYS)
AAW-SLURRY, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, SLURRY STORAGE, LIVESTOCK, OTHER BEASTS
AAW-SOLID, CATTLE	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, CATTLE (BOVINES)
AAW-SOLID, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-SOLID, CATTLE-BEEF ON FEED	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-SOLID, CATTLE-BEEF NO FEED	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-SOLID, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-SOLID, PIGS	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, PIGS
AAW-SOLID, HORSES/MULES/ASSES	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, HORSES/MULES/ASSES
AAW-SOLID, HORSES	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, HORSES
AAW-SOLID, MULES	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, MULES
AAW-SOLID, DONKEYS	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, DONKEYS
AAW-SOLID, SHEEP	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, SHEEP (OVINES)
AAW-SOLID, GOATS	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, GOATS
AAW-SOLID, BUFFALO	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, BUFFALO
AAW-SOLID, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, CAMELS & LLAMAS
AAW-SOLID, POULTRY	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, POULTRY
AAW-SOLID, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-SOLID, POULTRY (BROILERS)	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, POULTRY (BROILERS)
AAW-SOLID, POULTRY (TURKEYS)	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, POULTRY (TURKEYS)
AAW-SOLID, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, SOLID STORAGE, LIVESTOCK, OTHER BEASTS
AAW-DRYLOT, CATTLE	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, CATTLE (BOVINES)

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-DRYLOT, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-DRYLOT, CATTLE-BEEF ON FEE	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-DRYLOT, CATTLE-BEEF NO FEE	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-DRYLOT, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-DRYLOT, PIGS	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, PIGS
AAW-DRYLOT, HORSES/MULES/ASSES	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, HORSES/MULES/ASSES
AAW-DRYLOT, HORSES	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, HORSES
AAW-DRYLOT, MULES	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, MULES
AAW-DRYLOT, DONKEYS	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, DONKEYS
AAW-DRYLOT, SHEEP	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, SHEEP (OVINES)
AAW-DRYLOT, GOATS	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, GOATS
AAW-DRYLOT, BUFFALO	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, BUFFALO
AAW-DRYLOT, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, CAMELS & LLAMAS
AAW-DRYLOT, POULTRY	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, POULTRY
AAW-DRYLOT, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-DRYLOT, POULTRY (BROILERS)	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, POULTRY (BROILERS)
AAW-DRYLOT, POULTRY (TURKEYS)	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, POULTRY (TURKEYS)
AAW-DRYLOT, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, DRYLOT, LIVESTOCK, OTHER BEASTS
AAW-PASTURE, CATTLE	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, CATTLE (BOVINES)
AAW-PASTURE, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-PASTURE, CATTLE-BEEF ON FE	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-PASTURE, CATTLE-BEEF NO FE	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-PASTURE, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-PASTURE, PIGS	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, PIGS
AAW-PASTURE, HORSES/MULES/ASSE	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, HORSES/MULES/ASSES
AAW-PASTURE, HORSES	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, HORSES

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-PASTURE, MULES	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, MULES
AAW-PASTURE, DONKEYS	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, DONKEYS
AAW-PASTURE, SHEEP	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, SHEEP (OVINES)
AAW-PASTURE, GOATS	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, GOATS
AAW-PASTURE, BUFFALO	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, BUFFALO
AAW-PASTURE, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, CAMELS & LLAMAS
AAW-PASTURE, POULTRY	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, POULTRY
AAW-PASTURE, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-PASTURE, POULTRY (BROILERS)	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, POULTRY (BROILERS)
AAW-PASTURE, POULTRY (TURKEYS)	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, POULTRY (TURKEYS)
AAW-PASTURE, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, PASTURE, LIVESTOCK, OTHER BEASTS
AAW-RANGE, CATTLE	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, CATTLE (BOVINES)
AAW-RANGE, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-RANGE, CATTLE-BEEF ON FEED	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-RANGE, CATTLE-BEEF NO FEED	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-RANGE, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-RANGE, PIGS	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, PIGS
AAW-RANGE, HORSES/MULES/ASSES	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, HORSES/MULES/ASSES
AAW-RANGE, HORSES	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, HORSES
AAW-RANGE, MULES	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, MULES
AAW-RANGE, DONKEYS	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, DONKEYS
AAW-RANGE, SHEEP	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, SHEEP (OVINES)
AAW-RANGE, GOATS	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, GOATS
AAW-RANGE, BUFFALO	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, BUFFALO
AAW-RANGE, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, CAMELS & LLAMAS
AAW-RANGE, POULTRY	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, POULTRY

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-RANGE, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-RANGE, POULTRY (BROILERS)	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, POULTRY (BROILERS)
AAW-RANGE, POULTRY (TURKEYS)	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, POULTRY (TURKEYS)
AAW-RANGE, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, RANGE, LIVESTOCK, OTHER BEASTS
AAW-LITTER, CATTLE	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, CATTLE (BOVINES)
AAW-LITTER, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-LITTER, CATTLE-BEEF ON FEE	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-LITTER, CATTLE-BEEF NO FEE	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-LITTER, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-LITTER, PIGS	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, PIGS
AAW-LITTER, HORSES/MULES/ASSES	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, HORSES/MULES/ASSES
AAW-LITTER, HORSES	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, HORSES
AAW-LITTER, MULES	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, MULES
AAW-LITTER, DONKEYS	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, DONKEYS
AAW-LITTER, SHEEP	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, SHEEP (OVINES)
AAW-LITTER, GOATS	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, GOATS
AAW-LITTER, BUFFALO	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, BUFFALO
AAW-LITTER, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, CAMELS & LLAMAS
AAW-LITTER, POULTRY	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, POULTRY
AAW-LITTER, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-LITTER, POULTRY (BROILERS)	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, POULTRY (BROILERS)
AAW-LITTER, POULTRY (TURKEYS)	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, POULTRY (TURKEYS)
AAW-LITTER, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, LITTER, LIVESTOCK, OTHER BEASTS
AAW-PIT (<1 MO), CATTLE	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, CATTLE (BOVINES)
AAW-PIT (<1 MO), CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-PIT (<1 MO), CATTLE-BEEF O	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-PIT (<1 MO), CATTLE-BEEF N	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-PIT (<1 MO), CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-PIT (<1 MO), PIGS	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, PIGS
AAW-PIT (<1 MO), HORSE/MULE/AS	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, HORSES/MULES/ASSES
AAW-PIT (<1 MO), HORSES	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, HORSES
AAW-PIT (<1 MO), MULES	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, MULES
AAW-PIT (<1 MO), DONKEYS	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, DONKEYS
AAW-PIT (<1 MO), SHEEP	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, SHEEP (OVINES)
AAW-PIT (<1 MO), GOATS	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, GOATS
AAW-PIT (<1 MO), BUFFALO	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, BUFFALO
AAW-PIT (<1 MO), CAMELS & LLAM	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, CAMELS & LLAMAS
AAW-PIT (<1 MO), POULTRY	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, POULTRY
AAW-PIT (<1 MO), POULTRY (CAGE	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-PIT (<1 MO), POULTRY (BROI	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, POULTRY (BROILERS)
AAW-PIT (<1 MO), POULTRY (TURK	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, POULTRY (TURKEYS)
AAW-PIT (<1 MO), OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (<1 MO), LIVESTOCK, OTHER BEASTS
AAW-PIT (>1 MO), CATTLE	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, CATTLE (BOVINES)
AAW-PIT (>1 MO), CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-PIT (>1 MO), CATTLE-BEEF O	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-PIT (>1 MO), CATTLE-BEEF N	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-PIT (>1 MO), CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-PIT (>1 MO), PIGS	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, PIGS
AAW-PIT (>1 MO), HORSE/MULE/AS	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, HORSES/MULES/ASSES
AAW-PIT (>1 MO), HORSES	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, HORSES
AAW-PIT (>1 MO), MULES	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, MULES
AAW-PIT (>1 MO), DONKEYS	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, DONKEYS

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-PIT (>1 MO), SHEEP	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, SHEEP (OVINES)
AAW-PIT (>1 MO), GOATS	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, GOATS
AAW-PIT (>1 MO), BUFFALO	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, BUFFALO
AAW-PIT (>1 MO), CAMELS & LLAM	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, CAMELS & LLAMAS
AAW-PIT (>1 MO), POULTRY	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, POULTRY
AAW-PIT (>1 MO), POULTRY (CAGE	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-PIT (>1 MO), POULTRY (BROI	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, POULTRY (BROILERS)
AAW-PIT (>1 MO), POULTRY (TURK	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, POULTRY (TURKEYS)
AAW-PIT (>1 MO), OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, PIT STORAGE (>1 MO), LIVESTOCK, OTHER BEASTS
AAW-DAILY, CATTLE	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, CATTLE (BOVINES)
AAW-DAILY, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-DAILY, CATTLE-BEEF ON FEED	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-DAILY, CATTLE-BEEF NO FEED	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-DAILY, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-DAILY, PIGS	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, PIGS
AAW-DAILY, HORSES/MULES/ASSES	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, HORSES/MULES/ASSES
AAW-DAILY, HORSES	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, HORSES
AAW-DAILY, MULES	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, MULES
AAW-DAILY, DONKEYS	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, DONKEYS
AAW-DAILY, SHEEP	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, SHEEP (OVINES)
AAW-DAILY, GOATS	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, GOATS
AAW-DAILY, BUFFALO	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, BUFFALO
AAW-DAILY, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, CAMELS & LLAMAS
AAW-DAILY, POULTRY	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, POULTRY
AAW-DAILY, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-DAILY, POULTRY (BROIL)	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, POULTRY (BROILERS)
AAW-DAILY, POULTRY (TURKEY)	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, POULTRY (TURKEYS)

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-DAILY, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, DAILY SPREAD, LIVESTOCK, OTHER BEASTS
AAW-DEEP PIT, CATTLE	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, CATTLE (BOVINES)
AAW-DEEP PIT, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-DEEP PIT, CATTLE-BEEF ON F	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-DEEP PIT, CATTLE-BEEF NO F	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-DEEP PIT, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-DEEP PIT, PIGS	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, PIGS
AAW-DEEP PIT, HORSES/MULES/ASS	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, HORSES/MULES/ASSES
AAW-DEEP PIT, HORSES	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, HORSES
AAW-DEEP PIT, MULES	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, MULES
AAW-DEEP PIT, DONKEYS	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, DONKEYS
AAW-DEEP PIT, SHEEP	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, SHEEP (OVINES)
AAW-DEEP PIT, GOATS	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, GOATS
AAW-DEEP PIT, BUFFALO	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, BUFFALO
AAW-DEEP PIT, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, CAMELS & LLAMAS
AAW-DEEP PIT, POULTRY	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, POULTRY
AAW-DEEP PIT, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-DEEP PIT, POULTRY (BROIL)	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, POULTRY (BROILERS)
AAW-DEEP PIT, POULTRY (TURKEY)	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, POULTRY (TURKEYS)
AAW-DEEP PIT, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, DEEP PIT STACKING, LIVESTOCK, OTHER BEASTS
AAW-Paddock, CATTLE	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, CATTLE (BOVINES)
AAW-Paddock, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-Paddock, CATTLE-BEEF ON FE	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-Paddock, CATTLE-BEEF NO FE	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-Paddock, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-Paddock, PIGS	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, PIGS

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-Paddock, HORSES/MULES/ASSE	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, HORSES/MULES/ASSES
AAW-Paddock, HORSES	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, HORSES
AAW-Paddock, MULES	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, MULES
AAW-Paddock, DONKEYS	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, DONKEYS
AAW-Paddock, SHEEP	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, SHEEP (OVINES)
AAW-Paddock, GOATS	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, GOATS
AAW-Paddock, BUFFALO	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, BUFFALO
AAW-Paddock, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, CAMELS & LLAMAS
AAW-Paddock, POULTRY	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, POULTRY
AAW-Paddock, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-Paddock, POULTRY (BROIL)	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, POULTRY (BROILERS)
AAW-Paddock, POULTRY (TURKEY)	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, POULTRY (TURKEYS)
AAW-Paddock, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, Paddock, LIVESTOCK, OTHER BEASTS
AAW-PAST/RANGE, CATTLE	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, CATTLE (BOVINES)
AAW-PAST/RANGE, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-PAST/RANGE, CATTLE-BEEF ON	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-PAST/RANGE, CATTLE-BEEF NO	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-PAST/RANGE, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-PAST/RANGE, PIGS	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, PIGS
AAW-PAST/RANGE, HORSES/MULE/AS	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, HORSES/MULES/ASSES
AAW-PAST/RANGE, HORSES	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, HORSES
AAW-PAST/RANGE, MULES	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, MULES
AAW-PAST/RANGE, DONKEYS	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, DONKEYS
AAW-PAST/RANGE, SHEEP	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, SHEEP (OVINES)
AAW-PAST/RANGE, GOATS	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, GOATS
AAW-PAST/RANGE, BUFFALO	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, BUFFALO



<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-PAST/RANGE, CAMELS & LLAMA	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, CAMELS & LLAMAS
AAW-PAST/RANGE, POULTRY	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, POULTRY
AAW-PAST/RANGE, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-PAST/RANGE, POULTRY (BROIL	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, POULTRY (BROILERS)
AAW-PAST/RANGE, POULTRY (TURKE	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, POULTRY (TURKEYS)
AAW-PAST/RANGE, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, PASTURE/RANGE-ARID, LIVESTOCK, OTHER BEASTS
AAW-DRYLOT-ARID, CATTLE	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, CATTLE (BOVINES)
AAW-DRYLOT-ARID, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-DRYLOT-ARID, CATTLE-BEEF O	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-DRYLOT-ARID, CATTLE-BEEF N	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-DRYLOT-ARID, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-DRYLOT-ARID, PIGS	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, PIGS
AAW-DRYLOT-ARID, HORSE/MULE/AS	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, HORSES/MULES/ASSES
AAW-DRYLOT-ARID, HORSES	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, HORSES
AAW-DRYLOT-ARID, MULES	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, MULES
AAW-DRYLOT-ARID, DONKEYS	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, DONKEYS
AAW-DRYLOT-ARID, SHEEP	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, SHEEP (OVINES)
AAW-DRYLOT-ARID, GOATS	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, GOATS
AAW-DRYLOT-ARID, BUFFALO	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, BUFFALO
AAW-DRYLOT-ARID, CAMELS & LLAM	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, CAMELS & LLAMAS
AAW-DRYLOT-ARID, POULTRY	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, POULTRY
AAW-DRYLOT-ARID, POULTRY (CAGE	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-DRYLOT-ARID, POULTRY (BROI	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, POULTRY (BROILERS)
AAW-DRYLOT-ARID, POULTRY (TURK	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, POULTRY (TURKEYS)
AAW-DRYLOT-ARID, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, DRYLOT-ARID, LIVESTOCK, OTHER BEASTS
AAW-ANAER-DIGEST, CATTLE	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, CATTLE (BOVINES)

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-ANAER-DIGEST, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-ANAER-DIGEST, BEEF ON FEED	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-ANAER-DIGEST, BEEF NO FEED	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-ANAER-DIGEST, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-ANAER-DIGEST, PIGS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, PIGS
AAW-ANAER-DIGEST, HORS/MULE/AS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, HORSES/MULES/ASSES
AAW-ANAER-DIGEST, HORSES	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, HORSES
AAW-ANAER-DIGEST, MULES	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, MULES
AAW-ANAER-DIGEST, DONKEYS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, DONKEYS
AAW-ANAER-DIGEST, SHEEP	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, SHEEP (OVINES)
AAW-ANAER-DIGEST, GOATS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, GOATS
AAW-ANAER-DIGEST, BUFFALO	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, BUFFALO
AAW-ANAER-DIGEST, CAMELS & LLA	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, CAMELS & LLAMAS
AAW-ANAER-DIGEST, POULTRY	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, POULTRY
AAW-ANAER-DIGEST, POULTRY (CAG	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-ANAER-DIGEST, POULTRY (BRO	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, POULTRY (BROILERS)
AAW-ANAER-DIGEST, POULTRY (TUR	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, POULTRY (TURKEYS)
AAW-ANAER-DIGEST, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER, LIVESTOCK, OTHER BEASTS
AAW-AN-DI-CHIN, CATTLE	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, CATTLE (BOVINES)
AAW-AN-DI-CHIN, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-AN-DI-CHIN, CATTLE-BEEF ON	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-AN-DI-CHIN, CATTLE-BEEF NO	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-AN-DI-CHIN, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-AN-DI-CHIN, PIGS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, PIGS
AAW-AN-DI-CHIN, HORSE/MULE/ASS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, HORSES/MULES/ASSES
AAW-AN-DI-CHIN, HORSES	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, HORSES

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-AN-DI-CHIN, MULES	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, MULES
AAW-AN-DI-CHIN, DONKEYS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, DONKEYS
AAW-AN-DI-CHIN, SHEEP	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, SHEEP (OVINES)
AAW-AN-DI-CHIN, GOATS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, GOATS
AAW-AN-DI-CHIN, BUFFALO	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, BUFFALO
AAW-AN-DI-CHIN, CAMELS & LLAMA	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, CAMELS & LLAMAS
AAW-AN-DI-CHIN, POULTRY	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, POULTRY
AAW-AN-DI-CHIN, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-AN-DI-CHIN, POULTRY (BROIL)	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, POULTRY (BROILERS)
AAW-AN-DI-CHIN, POULTRY (TURKE	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, POULTRY (TURKEYS)
AAW-AN-DI-CHIN, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, ANAEROBIC-DIGESTER-CHINESE, LIVESTOCK, OTHER BEASTS
AAW-BURN-FUEL, CATTLE	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, CATTLE (BOVINES)
AAW-BURN-FUEL, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-BURN-FUEL, CATTLE-BEEF ON	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-BURN-FUEL, CATTLE-BEEF NO	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-BURN-FUEL, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-BURN-FUEL, PIGS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, PIGS
AAW-BURN-FUEL, HORSES/MULES/AS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, HORSES/MULES/ASSES
AAW-BURN-FUEL, HORSES	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, HORSES
AAW-BURN-FUEL, MULES	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, MULES
AAW-BURN-FUEL, DONKEYS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, DONKEYS
AAW-BURN-FUEL, SHEEP	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, SHEEP (OVINES)
AAW-BURN-FUEL, GOATS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, GOATS
AAW-BURN-FUEL, BUFFALO	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, BUFFALO
AAW-BURN-FUEL, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, CAMELS & LLAMAS

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-BURN-FUEL, POULTRY	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, POULTRY
AAW-BURN-FUEL, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-BURN-FUEL, POULTRY (BROIL)	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, POULTRY (BROILERS)
AAW-BURN-FUEL, POULTRY (TURKEY	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, POULTRY (TURKEYS)
AAW-BURN-FUEL, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL, LIVESTOCK, OTHER BEASTS
AAW-BUR-FUEL-AR, CATTLE	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, CATTLE (BOVINES)
AAW-BUR-FUEL-AR, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-BUR-FUEL-AR, CATTLE-BEEF O	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-BUR-FUEL-AR, CATTLE-BEEF N	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-BUR-FUEL-AR, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-BUR-FUEL-AR, PIGS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, PIGS
AAW-BUR-FUEL-AR, HORSE/MULE/AS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, HORSES/MULES/ASSES
AAW-BUR-FUEL-AR, HORSES	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, HORSES
AAW-BUR-FUEL-AR, MULES	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, MULES
AAW-BUR-FUEL-AR, DONKEYS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, DONKEYS
AAW-BUR-FUEL-AR, SHEEP	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, SHEEP (OVINES)
AAW-BUR-FUEL-AR, GOATS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, GOATS
AAW-BUR-FUEL-AR, BUFFALO	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, BUFFALO
AAW-BUR-FUEL-AR, CAMELS & LLAM	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, CAMELS & LLAMAS
AAW-BUR-FUEL-AR, POULTRY	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, POULTRY
AAW-BUR-FUEL-AR, POULTRY (CAGE	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-BUR-FUEL-AR, POULTRY (BROI	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, POULTRY (BROILERS)
AAW-BUR-FUEL-AR, POULTRY (TURK	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, POULTRY (TURKEYS)
AAW-BUR-FUEL-AR, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, BURNED FOR FUEL-ARID, LIVESTOCK, OTHER BEASTS
AAW-INCINERATE, CATTLE	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, CATTLE (BOVINES)
AAW-INCINERATE, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, CATTLE, BEEF (BOVINES)

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-INCINERATE, CATTLE-BEEF ON	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-INCINERATE, CATTLE-BEEF NO	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-INCINERATE, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-INCINERATE, PIGS	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, PIGS
AAW-INCINERATE, HORSE/MULE/ASS	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, HORSES/MULES/ASSES
AAW-INCINERATE, HORSES	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, HORSES
AAW-INCINERATE, MULES	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, MULES
AAW-INCINERATE, DONKEYS	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, DONKEYS
AAW-INCINERATE, SHEEP	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, SHEEP (OVINES)
AAW-INCINERATE, GOATS	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, GOATS
AAW-INCINERATE, BUFFALO	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, BUFFALO
AAW-INCINERATE, CAMELS & LLAMA	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, CAMELS & LLAMAS
AAW-INCINERATE, POULTRY	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, POULTRY
AAW-INCINERATE, POULTRY (CAGED	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-INCINERATE, POULTRY (BROIL	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, POULTRY (BROILERS)
AAW-INCINERATE, POULTRY (TURKE	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, POULTRY (TURKEYS)
AAW-INCINERATE, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, INCINERATION, LIVESTOCK, OTHER BEASTS
AAW-COMPOST, CATTLE	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, CATTLE (BOVINES)
AAW-COMPOST, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-COMPOST, CATTLE-BEEF ON FE	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-COMPOST, CATTLE-BEEF NO FE	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-COMPOST, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-COMPOST, PIGS	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, PIGS
AAW-COMPOST, HORSES/MULES/ASSE	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, HORSES/MULES/ASSES
AAW-COMPOST, HORSES	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, HORSES
AAW-COMPOST, MULES	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, MULES

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-COMPOST, DONKEYS	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, DONKEYS
AAW-COMPOST, SHEEP	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, SHEEP (OVINES)
AAW-COMPOST, GOATS	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, GOATS
AAW-COMPOST, BUFFALO	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, BUFFALO
AAW-COMPOST, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, CAMELS & LLAMAS
AAW-COMPOST, POULTRY	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, POULTRY
AAW-COMPOST, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, POULTRY (CAGED LAYERS)
AAW-COMPOST, POULTRY (BROIL)	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, POULTRY (BROILERS)
AAW-COMPOST, POULTRY (TURKEY)	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, POULTRY (TURKEYS)
AAW-COMPOST, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, COMPOST, LIVESTOCK, OTHER BEASTS
AAW-OTHER, CATTLE	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, CATTLE (BOVINES)
AAW-OTHER, CATTLE-BEEF	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, CATTLE, BEEF (BOVINES)
AAW-OTHER, CATTLE-BEEF ON FEED	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, CATTLE, BEEF ON FEED (BOVINES)
AAW-OTHER, CATTLE-BEEF NO FEED	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, CATTLE, BEEF NOT ON FEED (BOVINES)
AAW-OTHER, CATTLE-DAIRY	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, CATTLE, DAIRY (BOVINES)
AAW-OTHER, PIGS	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, PIGS
AAW-OTHER, HORSES/MULES/ASSES	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, HORSES/MULES/ASSES
AAW-OTHER, HORSES	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, HORSES
AAW-OTHER, MULES	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, MULES
AAW-OTHER, DONKEYS	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, DONKEYS
AAW-OTHER, SHEEP	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, SHEEP (OVINES)
AAW-OTHER, GOATS	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, GOATS
AAW-OTHER, BUFFALO	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, BUFFALO
AAW-OTHER, CAMELS & LLAMAS	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, CAMELS & LLAMAS
AAW-OTHER, POULTRY	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, POULTRY
AAW-OTHER, POULTRY (CAGED)	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, POULTRY (CAGED LAYERS)

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AAW-OTHER, POULTRY (BROIL)	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, POULTRY (BROILERS)
AAW-OTHER, POULTRY (TURKEY)	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, POULTRY (TURKEYS)
AAW-OTHER, OTHER BEASTS	AGRICULTURE, ANIMAL WASTE, OTHER, LIVESTOCK, OTHER BEASTS
AGRICULTURE, RICE CULTIVATION,	AGRICULTURE, RICE CULTIVATION, TOTAL
RICE, UPLAND, TOTAL	AGRICULTURE, RICE CULTIVATION, UPLAND, TOTAL
RICE, DEEP WATER, TOTAL	AGRICULTURE, RICE CULTIVATION, DEEP WATER, TOTAL
RICE, OTHER WETLAND, TOTAL	AGRICULTURE, RICE CULTIVATION, OTHER WETLAND, TOTAL
AGRICULTURAL SOILS, TOT	AGRICULTURE, AGRICULTURAL SOILS, TOTAL
PASTURE/GRASSLAND, TOTAL	AGRICULTURE, AGRICULTURAL SOILS, PASTURE/GRASSLAND, TOTAL
CROPS/ARABLE LAND, TOTAL	AGRICULTURE, AGRICULTURAL SOILS, CROPS/ARABLE LAND, TOTAL
HORTICULTURE, TOTAL	AGRICULTURE, AGRICULTURAL SOILS, HORTICULTURE, TOTAL
AGRICULTURE TOTAL	AGRICULTURE, TOTAL
FERTILIZER USE TOTAL	AGRICULTURE, AGRICULTURAL SOILS, FERTILIZER USE, TOTAL
FERTILIZER USE ANHYDROUS AMMON	AGRICULTURE, AGRICULTURAL SOILS, FERTILIZER USE, ANHYDROUS AMMONIA, TOTAL
FERTILIZER USE AMMONIUM NITRAT	AGRICULTURE, AGRICULTURAL SOILS, FERTILIZER USE, AMMONIUM NITRATE, TOTAL
FERTILIZER USE AMMONIA TYPE	AGRICULTURE, AGRICULTURAL SOILS, FERTILIZER USE, AMMONIUM TYPE, TOTAL
FERTILIZER USE UREA	AGRICULTURE, AGRICULTURAL SOILS, FERTILIZER USE, UREA, TOTAL
FERTILIZER USE NITROGEN	AGRICULTURE, AGRICULTURAL SOILS, FERTILIZER USE, NITRATE, TOTAL
FERTILIZER USE OTHER NITRATE	AGRICULTURE, AGRICULTURAL SOILS, FERTILIZER USE, OTHER NITROGEN FERTILIZERS, TOTAL
FERTILIZER USE OTHER COMPLEX	AGRICULTURE, AGRICULTURAL SOILS, FERTILIZER USE, OTHER COMPLEX FERTILIZERS, TOTAL
FERTILIZERS CONSUMPTION	AGRICULTURE, LIVESTOCK, FISHERIES - FERTILIZERS CONSUMPTION (NITROGEN CONSUMPTION)
FERT CONSUM - AMMONIUM SULFATE	AGRICULTURE, LIVESTOCK, FISHERIES - FERTILIZERS CONSUMPTION, AMMONIUM SULFATE (NITROGEN CONSUMPTION)
FERT CONSUM - AMMONIUM NITRATE	AGRICULTURE, LIVESTOCK, FISHERIES - FERTILIZERS CONSUMPTION, AMMONIUM NITRATE (NITROGEN CONSUMPTION)
FERT CONSUM - UREA	AGRICULTURE, LIVESTOCK, FISHERIES - FERTILIZERS CONSUMPTION, UREA (NITROGEN CONSUMPTION)
FERT CONSUM - COMB (NP,NK,NPK)	AGRICULTURE, LIVESTOCK, FISHERIES - FERTILIZERS CONSUMPTION, COMBINED (NP, NK, NPK) (NITROGEN CONSUMPTION)
FERT USE OTHER TOT	AGRICULTURE, AGRICULTURAL SOILS, FERTILIZER USE, OTHER AGRICULTURAL SOILS, TOTAL

<b>Sector Short Description</b>	<b>Sector Long Description</b>
AGRIC WASTE BURN TOT	AGRICULTURE, AGRICULTURAL WASTE BURNING, TOTAL
AGRIC SAVAN BURN TOT	AGRICULTURE, SAVANNAH BURNING, TOTAL
FORESTRY, FOREST SOIL EMISSION	FORESTRY, FOREST SOIL EMISSIONS, TOTAL
LAND USE CHG TOT	LAND USE CHANGE, TOTAL
LAND USE CHG FOR	LAND USE CHANGE, FOREST CLEARING, TOTAL
LAND USE CHG PRE	LAND USE CHANGE, PRESCRIBED BURNING, TOTAL
ABANDON MGD LND TOT	LAND USE CHANGE, ABANDONMENT OF MANAGED LANDS, TOTAL
LAND USE CHG PLANT	LAND USE CHANGE, PLANTATION, TOTAL
LAND USE CHG OTHR	LAND USE CHANGE, OTHER LAND USE CHANGE, TOTAL
PUBLIC SERVICE TOT	PUBLIC SERVICE, TOTAL
PUB SVS LANDFILLS	PUBLIC SERVICE, LANDFILLS, TOTAL
PUB SVS SEWAGE TREAT	PUBLIC SERVICE, SEWAGE TREATMENT, TOTAL
PUBLIC SERVICE, INCINER (WASTE	PUBLIC SERVICE, INCINERATION (WASTE), TOTAL
PUBLIC SERVICE, COMPOST, TOTAL	PUBLIC SERVICE, COMPOSTING, TOTAL
PUBLIC SERVICE, SLUDGE SPREAD	PUBLIC SERVICE, SLUDGE SPREADING, TOTAL
PUBLIC SERVICE, OTHER	PUBLIC SERVICE, OTHER, TOTAL
WASTES TREATMENT AND DISPOSAL	WASTES TREATMENT AND DISPOSAL
SOLID WASTES	WASTES TREATMENT AND DISPOSAL, SOLID WASTES
LANDFILLING	WASTES TREATMENT AND DISPOSAL, SOLID WASTES, LANDFILLING (LANDFILLED QUANTITY)
INCINER DOM OR MUNI WASTEWATER	WASTES TREATMENT AND DISPOSAL, SOLID WASTES, INCINERATION OF DOMESTIC OR MUNICIPAL WASTEWATER (INCINERATED QUANTITY)
INDUSTRIAL WASTE INCINERATOR	WASTES TREATMENT AND DISPOSAL, SOLID WASTES, INDUSTRIAL WASTE INCINERATOR (INCINERATED QUANTITY)
WASTEWATERS	WASTES TREATMENT AND DISPOSAL, WASTEWATERS
WASTEWATER TREATMENT	WASTES TREATMENT AND DISPOSAL, WASTEWATERS, WASTEWATER TREATMENT (EQUIVALENT SERVED POPULATION)
SLUDGE SPREADING	WASTES TREATMENT AND DISPOSAL, WASTEWATERS, SLUDGE SPREADING (SPREADED QUANTITY)
TREAT AND STORAGE DISPOSAL FAC	WASTES TREATMENT AND DISPOSAL, TREATMENT AND STORAGE DISPOSAL FACILITIES



<b>Sector Short Description</b>	<b>Sector Long Description</b>
WATER BODIES, TOTAL	WATER BODIES, TOTAL
WATER BODIES, GROUNDWATER	WATER BODIES, GROUNDWATER, TOTAL
WATER BODIES, INLAND SURFACE	WATER BODIES, INLAND SURFACE WATER, TOTAL
WATER BODIES, COASTAL WATER	WATER BODIES, COASTAL WATER, TOTAL
WATER BODIES, OTHER	WATER BODIES, OTHER, TOTAL
TRANS, NON-ENERGY USE, TOTAL	TRANSPORTATION, NON-ENERGY USE, TOTAL
EXTRACT & DISTRIBUT OF FUELS,	EXTRACTION AND DISTRIBUTION OF FUELS, TOTAL
SOLID FUELS	EXTRACTION AND DISTRIBUTION OF FUELS, SOLID FUELS (EXTRACTED QUANTITY)
SOLID FOSSIL FUELS MINING	EXTRACTION AND DISTRIBUTION OF FUELS, SOLID FUELS, SOLID FOSSIL FUELS MINING (EXTRACTED QUANTITY)
GASEOUS FUELS	EXTRACTION AND DISTRIBUTION OF FUELS, GASEOUS FUELS
NATURAL GAS EXTRACTION	EXTRACTION AND DISTRIBUTION OF FUELS, GASEOUS FUELS, NATURAL GAS EXTRACTION (EXTRACTED QUANTITY)
DISTRIBUTION OF GAS	EXTRACTION AND DISTRIBUTION OF FUELS, GASEOUS FUELS, DISTRIBUTION OF GAS (DISTRIBUTED QUANTITY)
LIQUID FUELS	EXTRACTION AND DISTRIBUTION OF FUELS, LIQUID FUELS
OIL EXTRACTION	EXTRACTION AND DISTRIBUTION OF FUELS, LIQUID FUELS, OIL EXTRACTION (EXTRACTED QUANTITY)
DEPOTS OF LIQUID FUELS	EXTRACTION AND DISTRIBUTION OF FUELS, LIQUID FUELS, DEPOTS OF LIQUID FUELS (TURNOVER)
SERVICE STATIONS	EXTRACTION AND DISTRIBUTION OF FUELS, LIQUID FUELS, SERVICE STATIONS (SOLD FUEL)

## GloED Distribution Fuel Categories

<b>Fuel Category Short Description</b>	<b>Fuel Category Long Description</b>
ALL Fuels Total	ALL Fuels Total
NO FUEL	NO FUEL
LIQUID (oil & by-products)	LIQUID (oil & by-products)
Crude Oil	LIQUID - Crude Oil
Residual Fuel Oil	LIQUID - Residual Fuel Oil
Residual Fuel Oil Bunkers	LIQUID - Residual Fuel Oil Bunkers
Gas Oil/Diesel Oil	LIQUID - Gas Oil/Diesel Oil
Gas Oil/Diesel Bunkers	LIQUID - Gas Oil/Diesel Bunkers
Kerosene	LIQUID - Kerosene
Jet Fuel	LIQUID - Jet Fuel
Aviation Gasoline	LIQUID - Aviation Gasoline
Motor Gasoline	LIQUID - Motor Gasoline
Naphtha	LIQUID - Naphtha
Petroleum Coke	LIQUID- Petroleum Coke
Liquified Petroleum Gas	LIQUID - Liquified Petroleum Gas
Refinery Gas	LIQUID - Refinery Gas
Refinery Feedstocks	LIQUID - Refinery Feedstocks
Other Oil	LIQUID - Other Oil
SOLID(coal & by-products)	SOLID(coal & by-products)
Coking Coke	SOLID - Coking Coke
Steam Coal	SOLID - Steam Coal
Sub-bituminous Coal	SOLID - Sub-bituminous Coal
Brown Coal/Lignite	SOLID - Brown Coal/Lignite
Peat	SOLID - Peat

<b>Fuel Category Short Description</b>	<b>Fuel Category Long Description</b>
Coke	SOLID - Coke
Coke Oven Coke	SOLID - Coke Oven Coke
Gas Coke	SOLID - Gas Coke
Other	SOLID - Other
Patent Fuel	SOLID - Patent Fuel
Brown Coal Briquettes	SOLID - Brown Coal Briquettes
GAS (NG & derived products)	GAS (NG & derived products)
Natural Gas	GAS - Natural Gas
Other Gas	GAS - Other Gas
Gas Works Gas	GAS - Gas Works Gas
Coke Oven Gas	GAS - Coke Oven Gas
Blast Furnace Gas	GAS - Blast Furnace Gas
BIOMASS	BIOMASS
Wood	BIOMASS - Wood
Wood Waste	BIOMASS - Wood Waste
Vegetal Fuels	BIOMASS - Vegetal Fuels
Vegetal Waste	BIOMASS - Vegetal Waste
Derived Fuels	BIOMASS - Derived Fuels
OTHER WASTE	OTHER WASTE
Garbage	OTHER WASTE - Garbage
Industrial Waste	OTHER WASTE - Industrial Waste
Sulphur Lies	OTHER WASTE - Sulphur Lies
Fuel Oil	Fuel Oil
Diesel Oil	Diesel Oil
Spent Pulping Liquors	Spent Pulping Liquors
Coal	Coal







## **APPENDIX C**

### **GloED DISTRIBUTION DATASETS AND POLLUTANTS**





## APPENDIX C

### GloED DISTRIBUTION DATASETS AND POLLUTANTS

#### GloED Distribution Datasets

This distribution version of the GloED incorporates in its database twelve different "datasets." The majority of the datasets are single gas (i.e., methane emissions datasets). Some of the datasets include emissions from several greenhouse gases.

GloED Distribution Datasets	
Dataset Short Description	Dataset Long Description
Motor Vehicles	Preliminary Motor Vehicles Emissions for NMVOC, NOx, N2O, CO, CO2 and CH4/Radian
Landfills	CH4 Emissions From Landfills - DRAFT Report to Congress.
Minor CH4 Sources	Preliminary Minors Methane Sources / SRI
Rice Cultivation	Rice Cultivation - Matthews Data/Radian
Fuelwood Combustion	Preliminary Biomass Use - Fuelwood Combustion/Radian
Global VOC	Speciated VOC Global Inventory
Animal Waste Methane	Methane Emissions From Animal Wastes/ICF
Animal Enteric CH4	Methane Emissions From Animal Enteric -(FAO data and Lender et al.)/Radian
Domestic Waste Water	Preliminary Methane From Domestic Waste Water DRAFT Report To Congress/Radian
Underground Mines	Methane From Underground Mine Operations/SRI
Biomass Burning	CH4 From Biomass Burning of Savannah and Tropical Forest/Radian
CH4 from Oil&Gas Prd.	Methane From Oil and Gas Production

## 1. Motor Vehicles

Preliminary motor vehicle emissions inventory developed by Radian for EPA-APPCD. This inventory includes several gases: NMVOC, CH<sub>4</sub>, NO<sub>x</sub>, N<sub>2</sub>O, CO, and CO<sub>2</sub>. The estimates are subdivided by vehicles and fuel types.

Source Categories in the Motor Vehicles Dataset	
Motor Vehicles	
Gasoline Powered Motor Vehicles	
Light Duty Gasoline Vehicles	
Light Duty Gasoline Trucks	
Motorcycles (gasoline)	
Diesel Powered Motor Vehicles	
Light Duty Diesel Trucks	
Heavy Duty Diesel Trucks	

## 2. Landfills

This inventory was developed by Radian and it is partially based on landfill inventory data developed for EPA-APPCD. This dataset is a single source category and single gas (methane) inventory.

### 3. Minor CH<sub>4</sub> Sources

This preliminary dataset was developed by the Southern Research Institute for EPA-APPED Global Warming Control Branch. This inventory is a single gas, CH<sub>4</sub> inventory.

Source Categories in the Minor Source Methane Dataset	
REFINERY EMISSIONS	
PETROLEUM PRODUCTS, STORAGE AND DISTRIBUTION	
TRANSFER, STORAGE, AND DISPOSAL FACILITIES	
MOBILE SOURCES	
	MOBILE SOURCE LIGHT VEHICLE/LIMITED ACCESS HIGHWAY
	MOBILE SOURCE MED-HEAVY VEHICLE/LIMITED ACCESS HIGHWAY
	MOBILE SOURCE LIGHT VEHICLE/URBAN-RURAL HIGHWAY
	MOBILE SOURCE MED-HEAVY VEHICLE/URBAN-RURAL HIGHWAY
	MOBILE SOURCE OFF-ROAD VEHICLE
	MOBILE SOURCE VESSELS
	MOBILE SOURCE RAILWAYS
	MOBILE SOURCE AIRCRAFT
RESIDENTIAL FUEL COMBUSTION	
	FOSSIL FUEL COMBUSTION, RESIDENTIAL OIL
	FOSSIL FUEL COMBUSTION, RESIDENTIAL GAS
	FOSSIL FUEL COMBUSTION, RESIDENTIAL COAL
	RESIDENTIAL FUELWOOD EMISSIONS, TOTAL
	RESIDENTIAL WASTE BURNING
COMMERCIAL COMBUSTION	
	FOSSIL FUEL COMBUSTION, COMMERCIAL OIL
	FOSSIL FUEL COMBUSTION, COMMERCIAL GAS
	FOSSIL FUEL COMBUSTION, COMMERCIAL COAL
INDUSTRIAL COMBUSTION	
	FOSSIL FUEL COMBUSTION, INDUSTRIAL COAL PRODUCTION
	FOSSIL FUEL COMBUSTION, INDUSTRIAL OIL PRODUCTION
	FOSSIL FUEL COMBUSTION, INDUSTRIAL CRUDE OIL USE
	FOSSIL FUEL COMBUSTION, INDUSTRIAL GAS USE
	INDUSTRIAL WOOD COMBUSTION
	INDUSTRIAL WASTE INCINERATION
ELECTRICITY PRODUCTION	
	FOSSIL FUEL COMBUSTION, PUBLIC ELECTRICITY COAL USE
	FOSSIL FUEL COMBUSTION, PUBLIC ELECTRICITY OIL USE
	FOSSIL FUEL COMBUSTION, AUTOPRODUCER COAL USE
	FOSSIL FUEL COMBUSTION, AUTOPRODUCER OIL USE

<b>Source Categories in the Minor Source Methane Dataset (Continued)</b>
FOSSIL FUEL COMBUSTION, PUBLIC ELECTRICITY GAS USE
FOSSIL FUEL COMBUSTION, AUTOPRODUCER GAS USE
MISCELLANEOUS, NEC
MISCELLANEOUS FIRES
PEAT EMISSIONS
GEO THERMAL EMISSIONS
ORGANIC CHEMICAL EMISSIONS
MISCELLANEOUS MANUFACTURING EMISSIONS
PAPER, PRINTING, AND OTHER EMISSIONS
PUBLICLY-OWNED TREATMENT WORK EMISSIONS
COKE PRODUCTION EMISSIONS

#### **4. Rice Cultivation**

This dataset is based on the rice field methane emissions estimates of Matthews, Fung, and Lerner, "Methane Emissions from Rice Cultivation: Geographic and Seasonal Distributions of Cultivated Areas and Emissions," Global Biogeochemical Cycles, Vol. 5, No. 1 (March 1991), pp. 3-24. This is a single category single pollutant dataset.

#### **5. Fuelwood Burning**

This dataset is based on methane emissions from fuelwood burning. It was developed by Radian, for EPA-APPCD, based on published estimates (Levine, J. S., ed. Global Biomass Burnings: Atmospheric, Climatic and Biospheric Implications. The MIT Press, Cambridge, MA, 1970).

## 6. Global VOC

This dataset is based on the VOC speciated inventory developed by Watson et al. Published in the "Journal of Geophysical Research," No. D9, pp. 9897-9912. The Global VOC dataset is based on a non-hierarchical source category scheme.

Source Categories in the Global VOC Dataset
OIL AND NATURAL GAS PRODUCTION
COKE PRODUCTION
PETROLEUM REFINING
GASOLINE: STORAGE, TRANSPORTATION, MARKETING, CONSUMPTION
DISTILLATE FUEL OIL: STORAGE, TRANSPORTATION AND MARKETING
CRUDE OIL: STORAGE, TRANSPORTATION AND MARKETING
OTHER PETROLEUM: STORAGE, TRANSPORTATION AND MARKETING
PAPER COATING
SURFACE COATING OPERATIONS
PRINTING / PUBLISHING
RUBBER, PLASTICS, AND OTHER ORGANIC CHEMICAL MANUFACTURE
SOLVENT USE
PAINT PRODUCTION
PRODUCTION OF AUTOMOBILES AND LIGHT TRUCKS
PULP AND PAPER INDUSTRY
ASPHALT PAVING
BAKERIES
DIESEL VEHICLES
AIRCRAFT LTO'S
OTHER INDUSTRIAL / UTILITY ACTIVITIES
FUELWOOD UTILIZATION
REFUSE DISPOSAL
AGRICULTURE
FORESTS
TUNDRAS
WETLANDS
SOILS (INCLUDING PEATLANDS)
ANIMALS
GEOPHYSICAL PHENOMENA (METEOROLOGICAL, GEOTHERMAL, ETC.)
OCEANS
NATURALLY GROWING VEGETATION
NATURAL GAS - STORAGE, TRANSPORTATION, MARKETING
COAL APPLICATIONS - UTILITY AND INDUSTRIAL SOURCES

<b>Source Categories in the Global VOC Dataset (Continued)</b>
NATURAL GAS APPLICATIONS - UTILITY AND INDUSTRIAL SOURCES
COAL APPLICATIONS - RESIDENTIAL AND COMMERCIAL SOURCES
MISCELLANEOUS EMISSION SOURCES
OIL APPLICATIONS - RESIDENTIAL AND COMMERCIAL SOURCES
NATURAL GAS APPLICATIONS - RESIDENTIAL AND COMMERCIAL SOURCES
MANAGED BURNING

## 7. Animal Waste Methane

This dataset set is based on the inventory in the Global Methane Emissions from Livestock and Poultry Manure (Safley, L.M. Jr., M.E. Casada, J.W. Woodbury, and K.F. Roos. 1992. Global Methane Emissions from Livestock and Poultry Manure. EPA/400/1-91/048. Washington, DC: Environmental Protection Agency, Office of Air and Radiation). It is a single gas inventory. The inventory is subdivided by animal and animal waste system. The complete listing for the source categories are not included in the table, because of the number of source categories. For each of the source categories listed in the table for the animal wastes, dataset multiple source categories may exist that describe the waste management system. The activity and emission factors are at the animal waste management system level.

<b>Source Categories in the Animal Waste Methane Dataset</b>
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CATTLE (BOVINES)
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CATTLE, BEEF (BOVINES)
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CATTLE, BEEF ON FEED (BOVINES)
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CATTLE, BEEF NOT ON FEED (BOVINES)
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL CATTLE, DAIRY (BOVINES)
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL PIGS
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL HORSES/MULES/ASSES
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL HORSES
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL MULES
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL DONKEYS
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL SHEEP (OVINES)
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL GOATS
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL BUFFALO

<b>Source Categories in the Animal Waste Methane Dataset</b>
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL POULTRY
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL POULTRY (CAGED LAYERS)
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL POULTRY (BROILERS)
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL POULTRY (TURKEYS)
AGRICULTURE, ANIMAL WASTE, LIVESTOCK, TOTAL OTHER BEASTS

## 8. **Animal Enteric CH<sub>4</sub>**

This dataset includes emission factor data from Jean Lerner and Elaine Matthews. "Methane Emissions from Animals: A Global High Resolution Data Base," Global Biogeochemical Cycles, Vol. 2., No. 2 (1988). The activity data updated FAO animal population data from the Safly Animal Waste Methane Inventory (Safley, L.M., Jr., M.E. Casada, J.W. Woodbury, and K.F. Roos. 1992. Global Methane Emissions from Livestock and Poultry Manure. EPA/400/1-91/048. Washington, DC: Environmental Protection Agency, Office of Air and Radiation).

<b>Source Categories in the Animal Enteric Dataset</b>
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CATTLE (BOVINES)
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CATTLE, BEEF (BOVINES)
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CATTLE, BEEF ON FEED (BOVINES)
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CATTLE, BEEF NOT ON FEED (BOVINES)
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CATTLE, DAIRY (BOVINES)
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, PIGS
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, HORSES/MULES/ASSES
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, HORSES
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, MULES
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, DONKEYS
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, SHEEP (OVINES)
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, GOATS
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, BUFFALO
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, CAMELS & LLAMAS
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, POULTRY
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, POULTRY (CAGED LAYERS)
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, POULTRY (BROILERS)
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, POULTRY (TURKEYS)
AGRICULTURE, LIVESTOCK, ENTERIC FERMENTATION, OTHER BEASTS

## 9. **Domestic Waste Water**

This dataset is based on very preliminary estimates on methane emissions from domestic waste water. It was developed by Radian, and it is based on work performed for EPA-APPCD.

#### **10. Underground Coal Mines**

This dataset contains methane emissions estimates for coal production from underground mines. The dataset is based on estimates from Kirchgessner, Piccot, and Winkler, "Estimate of Global Methane Emissions From Coal Mines," *Chemosphere*, Vol. 26, Nos.1-4, pp. 453-472, 1993.

#### **11. Biomass Burning**

This dataset is for methane emissions from tropical biomass open burning. It was developed by Radian, for EPA-APPCD and it is based on published estimates (Levine, J. S., ed. *Global Biomass Burnings: Atmospheric, Climatic and Biospheric Implications*. The MIT Press, Cambridge, MA, 1970).

#### **12. Natural and Petroleum Gas Production**

This dataset is based on data from *An Evaluation of the Relationship Between the Production and Use of Energy and Atmospheric Methane Emissions* (Barns, David W. and J.A. Edmonds. 1990. *An Evaluation of the Relationship Between the Production and Use of Energy and Atmospheric Methane Emissions* Carbon Dioxide Research Program, No. TR047. Washington, DC: U. S. Department of Energy, Office of Energy Research). The dataset contains emissions data only (i.e., no emissions factors and activities) for methane.



## GloED Distribution Pollutant List

<b>GloED Pollutant List</b>
<b>Pollutant Name</b>
<b>Paraffin</b>
<b>Olefin</b>
<b>Aromatic</b>
<b>Formaldehyde</b>
<b>Acid Aldehyde</b>
<b>Other Aromatic</b>
<b>Marginally Reactive</b>
<b>NO<sub>x</sub></b>
<b>CH<sub>4</sub></b>
<b>CO<sub>2</sub></b>
<b>CO</b>
<b>N<sub>2</sub>O</b>
<b>VOC</b>
<b>CO<sub>2</sub></b>
<b>CFC</b>
<b>CFC-11</b>
<b>CFC-12</b>
<b>CFC-113</b>
<b>CFC-114</b>
<b>CFC-115</b>
<b>Halons</b>
<b>Halon 1301</b>
<b>Halon 1211</b>
<b>Halon 2402</b>



## APPENDIX D

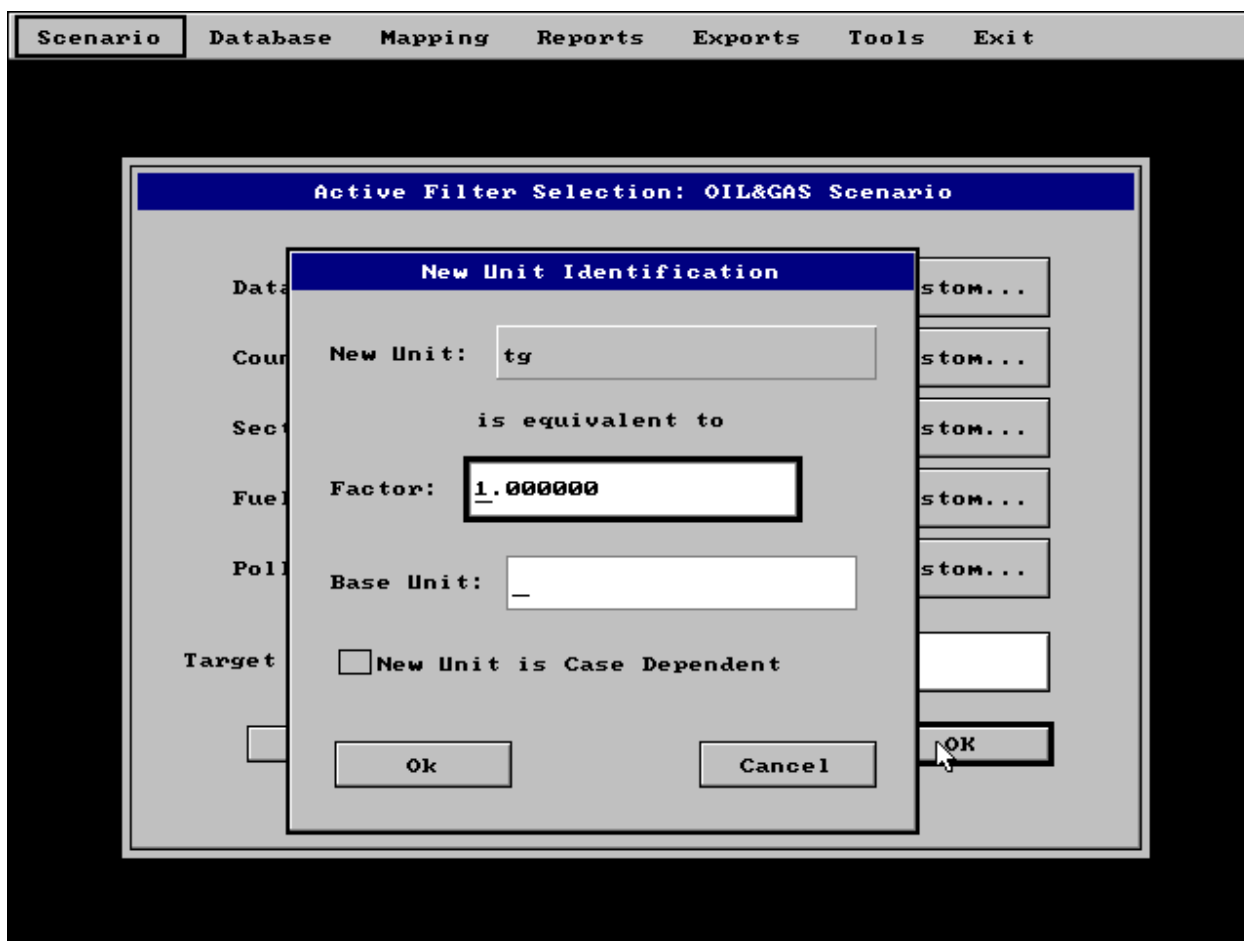
### GloED's UNIT CONVERSION UTILITY

One of the major problems inherent to any computerized emissions inventory tool is the difference in units associated with various datasets. Combining data from different datasets requires the conversion of the native units of a given emission value to common units. Because of the sizes and variety of data involved, requiring the user to supply necessary conversions would prove to be a time consuming and error-prone process.

GloED provides a series of core facilities to handle conversions of emissions based on different units with little user involvement. These facilities provide internal consistency checks while the user is selecting data to calculate inventories, as well as the ability to specify the desired target units for the calculation process. Additionally, the units system is user extensible, that is, all units not recognized by the core facility can be defined for the system to use in the future.

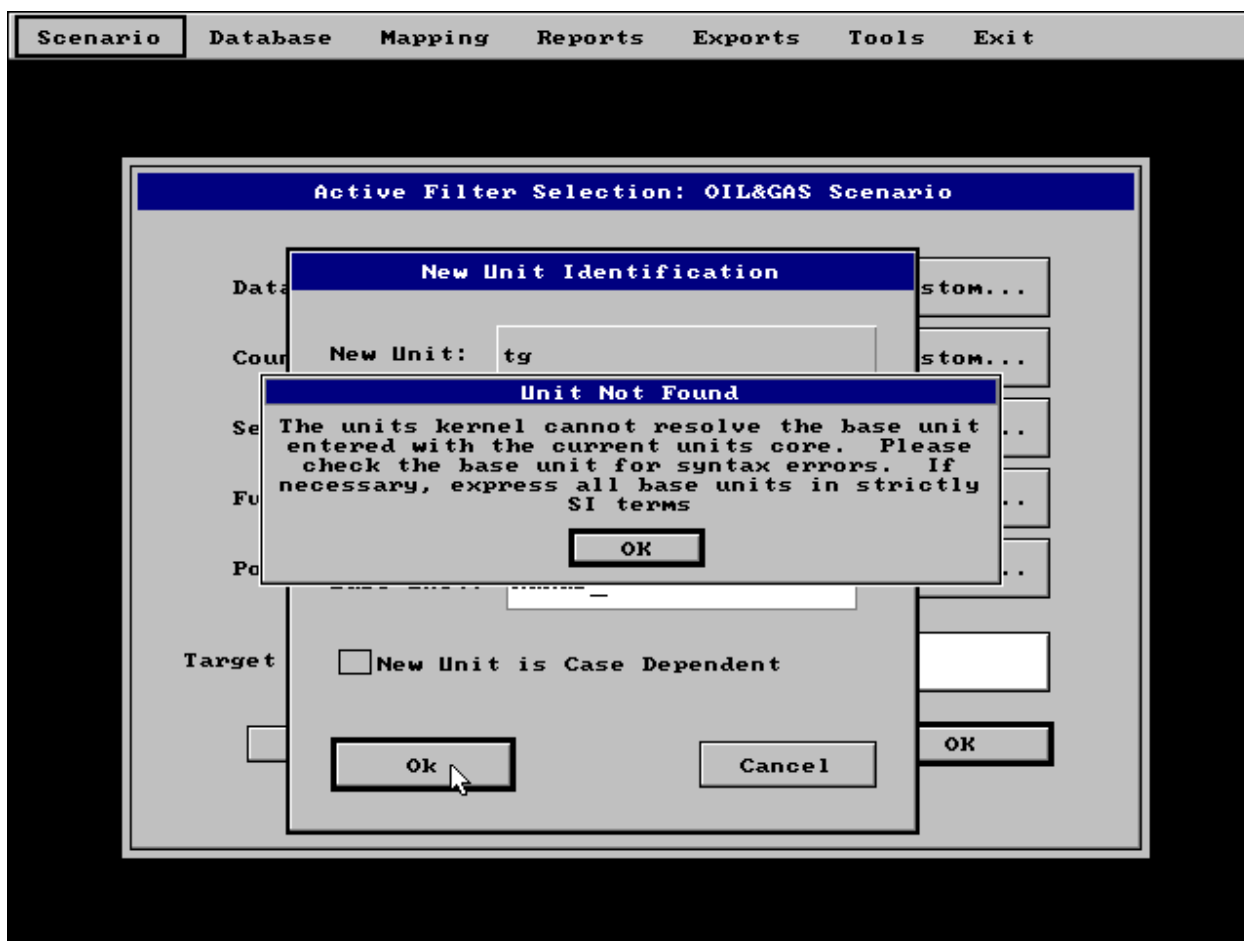
#### Adding New Units

GloED comes complete with many common expressions for units in both Standard International (SI) and English representation. However, it is likely that the user will attempt to specify a calculation in a unit that is correct but unknown to the system. In this case, the system will seek a definition of the unit in terms of other units it already recognizes. The system will then display the **"New Unit Identification"** dialog box (Figure D-1).



**Figure D-1. New Unit Identification Dialog Box**

The "New Unit Identification" dialog box appears with the unknown, new unit shown in the first field of the scroll box. The dialog box then prompts you to determine an equivalent "Factor" and the "Base Unit" for that quantitatively equivalent factor. The "Factor" text box, is initialized to "1" and should be completed with the factor necessary to convert the new unit to the string specified in the "Base Unit" text box. For the "Factor" field, up to ten digits are maintained by the system. The Units Conversion Utility is firmly based in SI units and all unit string expressions of this form should be acceptable to the system. If an unknown unit is entered in the units string field, the system will prompt the user to restate the unit string in other units by displaying the "New Unit Identification" dialog box as shown in Figure D-2. Exponents are denoted as follows: 1.0E+6.



**Figure D-2. Base Unit Not Found**

The last field on the "New Unit Identification" dialog box requests that you indicate the case dependency of the new unit. This indication determines whether an expression of the unit in any combination of capital and small letters alters its meaning. In the example shown in Figure D-1, the abbreviation for teragrams, "tg," is not case dependent, because expressing it in mixed capital and small letters does not alter its meaning. However, had the unknown unit been "Mg," the unit fragment would have been case dependent, because another array of capital and small letters results in the expression "mg," which is nine orders of magnitude smaller.

Even though "tg" or some other unit may not be case dependent, such units may not be recognized by the unit conversion facility in GloED. This is because the unit "Tg" exists and is recognized by GloED, but the unit expression of "tg" is "new." Thus, GloED's Unit Conversion Utility does not recognize the "new" unit because "tg" is syntactically

incorrect. In this case, you must examine the unit and determine the correct syntax. Then, enter the correct form of the unit in the "**Target Units**" text box of the "**Active Filter Selection**" dialog box, or, better still, type the correct syntax in the "**Base Unit**" field of the "**New Unit Identification**" dialog box, that is "**Tg/yr.**" This will load "tg" into the Unit Conversion Utility as the equivalent of "Tg." In the future, should you type "tg" instead of "Tg" it will not matter; GloED will recognize the unit.

## The Unit Conversion Utility

At the heart of the Unit Conversion Utility is the units parser. The parser attempts to "understand" what is implied by a units string. To accomplish this, the parser requires units to be formatted with a specific syntactical construction. To describe this syntax, we will consider the following hypothetical unit string entered in a correct form as follows:

$$10^6 \text{ Mg}^2 / (\text{m}^3 \text{ s})^2 / \text{J}$$

From the perspective of the Unit Conversion Utility, this units string is a series of unit fragments delimited by operators, including the asterisk [\*] for multiplication and the backslash [/] for division. When the parser first examines the string, it determines that the string is composed of three unit fragments, including the following:

- $10^6 \text{ Mg}^2$
- $(\text{m}^3 \text{ s})$
- J

The parser further recognizes that units immediately following a division operator represent unit factors in the denominator of a units string. After defining each unit fragment, the parser attempts to rationalize each fragment while keeping track of whether the unit represents a numerator or denominator factor.

Units delimited by associative operators such as parentheses, ( and ), are assumed to comprise unit string of their own. The parser attempts to rationalize associated operators as if they were the original unit string. Results of the rationalization process are loaded into the parsed units. Note also that associated units strings can be exponentiated using the exponential operator, which is represented by the carat [^]. The result of exponentiating associated strings results in the string being duplicated the number of times specified by the exponent. Although the exponent can only be an integer, it may be positive or negative, depending on whether the factor should be rationalized in the numerator or the denominator.

Unit fragments are composed of two basic components: numeric qualifiers and unit text. Numeric qualifiers (e.g.,  $10^6$ ) must be listed first in a unit fragment. They multiply the unit by the given factor. A missing numeric qualifier results in an implicit factor of unity.

The unit text (e.g.,  $\text{Mg}^2$ ) is a textual representation of the units. This text may contain imbedded spaces (e.g., METRIC TONS). Some units, unit abbreviations in particular, tend to be partially case dependent (e.g., Mg is orders of magnitude greater than mg). However, exact, unabbreviated units names are not case dependent (e.g., METERS, grams, Pounds). Note further that numeric qualifiers and unit text may also be exponentiated in the same manner as associated text.

With strict adherence to the unit syntax construction, GloED is able to utilize a user-specified unit string to derive the necessary conversion factors for requested data by routine unit cancellation, manipulation, and examination of internally-based conversion tables. However, to ensure direct cancellation, the user must strive to avoid the more esoteric expressions for units such as "kg per annum." GloED will treat a string such as this as a single unit fragment and will examine the conversion tables for the conversion factor. The described string may be rewritten as "kg/yr." This will be fully recognized by the system as two units that can be cancelled, and the appropriate conversion can be derived on that basis.

## UNITS TABLE

The user is assured that the GloED will recognize these units; however, as pointed out, the GloED unit conversion facility can accept additional units and can resolve units new units in term of its existing unit database.

GloED Distribution Units*		
ACRE	HP	PARSEC
ACRES	HR	PASCAL
ANGSTROM	Hz	PASCALS
ANGSTROMS	IN	Pa
ARES	INCH	POUND
ATM	INCHES	POUND AVOIRDUPOIS
ATMOSPHERES	J	POUND FORCE
B.T.U.	JOULE	POUNDS
BARREL	JOULES	POUNDS AVOIRDUPOIS
BARRELS	KILOMETER	POUNDS FORCE
BARRELS US LIQUID	KILOMETERS	PSI
BARRELS US PETROLEUM	KILOWATT	PSIA
BTU	KILOWATTS	ROD
BTUS	KILOWATTS	RODS
BUSHELS US	KNOT	S
C	KNOTS	SHORT TON
CAL	KTON	SHORT TONS
CALENDAR YEAR	KTONNE	SIDEREAL YEAR
CALORIES	KTONNES	SIEMENS
CENTIMETERS	km	SLUGS
CORD	kW	T
CORDS	LEAP YEAR	TERAGRAMS
COULOMB	LITER	TESLA
cm	LITERS	Tg
DAY	LONG TONS	TOE
DAYS	lbs	TON
DECAGRAMS	lbs force	TON OF OIL EQUIVALENT
DYNES	lbs mass	TONNE
ERG	MEGAGRAMS	TONS
ERGS	MEGAWATT	TONS METRIC
F	MEGAWATTS	TONS OF OIL EQUIVALENT
FARAD	METRIC TONS	TORR
FATHOMS	Mg	TORRS
FEET	Mg	TTOE
FOOT	MICROGRAMS	V
FORTNIGHT	MILE	VOLT
FT	MILES	W
FURLONG	MILLIBARS	WATT
FURLONGS	MILLIGRAMS	WATTS
GAL	MILLIMETERS	WB
GALLONS	MIN	WEBER

(Continued)

GloED Distribution Units (Continued)		
GALLONS US	MINUTE	YEAR
GAMMAS	MINUTES	YEARS
Gg	MMT	YR
GIGAGRAMS	MTOE	
GRAINS	MTON	
GRAMS	MTONNE	
g	MTONNES	
H	MW	



HECTARE	mg	
HECTARES	mi	
HECTOGRAMS	mm	
HENRY	mm Hg	
HERTZ	N	
HORSEPOWER	NEWTON	
HORSEPOWER BOILER	NEWTONS	
HORSEPOWER ELECTRIC	nm	
HOUR	OHM	
HOURS	P.S.I.	

\*GloED will recognize units in several forms (e.g. BTU or B.T.U.)



# LOTUS IMPORTER

## Overview

1-2

converted to the GloED format quickly and efficiently. This appendix outlines the steps required for the import process. Figure 1-1 shows an Import Flow Chart. Importing data introduces a large number of possibilities for corrupting the GloED database files. Rather

allow a record to be imported if a possible error is detected. Instead, records with possible errors are an output of the import procedure. These records are written to 1-2 same format as the import file except that the last column contains a list of errors detected in that record. The GloED user may then make the

imported--then submit this file to GloED for another import attempt. If all the errors have been corrected, the import procedure is finished. If there are still errors, GloED will again

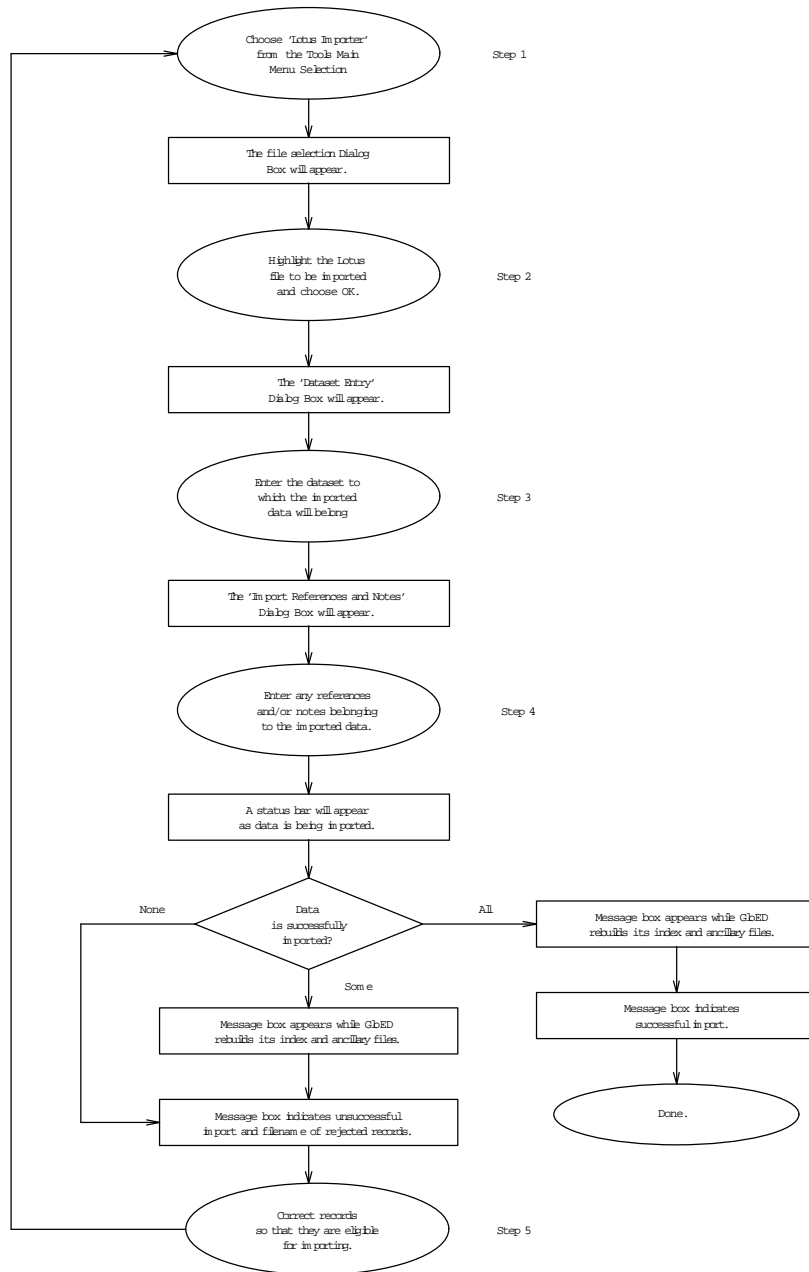
continues until all records have been successfully imported.

## Limitations

example, it is not possible to enter a new country, pollutant, category, or fuel via an imported file. If GloED does not recognize the country name, etc., the record is flagged

**GloED Editor**, enter the name of the new country, and then submit the file again for

each misspelling would result in the entry of a new country, etc. Furthermore, the hierarchical structure of the category and fuel entries would require more information than



**Figure E-1. The Import Process**

## Import File Structure

Each Lotus 1-2-3 file to be imported must have a consistent format. An example of the required format is in the Lotus 1-2-3 file STRUCT.WK1. It is suggested that this file be used as the starting point for entering data to be imported. Each row of the file represents an entire GloED record. The file consists of thirteen columns (or fields):

1. Country Name
2. Pollutant Short Entry
3. Category Short Entry
4. Fuel Short Entry
5. Activity
6. Activity Units
7. Emission Factor
8. Emission Factor Units
9. Emissions
10. Emissions Units
11. Year
12. Add Whom
13. Add Date

The first row of the import file should always contain the field names, as is shown in STRUCT.WK1.

## Import Procedure Steps


The import process is an iterative procedure ending with the successful importation of all records. The procedure consists of five major steps and follows the flow diagram shown previously in Figure E-1.

- 1 Choose **Lotus Importer** from the **Tools Main Menu** selection. The file selection dialog box will appear to allow the selection of the file to be imported.
- 2 Select the file to be imported by highlighting the name of the file and pressing the **[OK]** button. GloED then presents the **Dataset Entry** dialog box.

- 3 Enter the information for the dataset to which the imported data belongs. In general, each imported file will belong to a new dataset. If data is to be added to an already existing dataset, this introduces the possibility of adding duplicate records to the GloED database, and a message box appears with a warning and allows the user to cancel the import and return to the **Main Menu**, or to proceed with the import.
- 4 GloED then presents a dialog box to allow entry of any references and/or notes that belong to the imported file. Only one set of references and notes are allowed per imported file. If more than one set is needed, the import file may be broken into two, or more, files or the references and notes may be added later through the versatile **GloED Editor**.
- 5 After the references and notes are added, GloED will attempt to import the file. If the import is completely successful, i.e., all records are added to the GloED database, GloED will update its index and ancillary files, inform the user of the successful import, and return to the **Main Menu**. If the import is not completely successful, i.e., some or none of the records were added to the GloED database, GloED will add the eligible records to the database and write the rejected records to a Lotus 1-2-3 file named \_\_IMPRJT.WK1, which will be located in the same directory as the original import file. It is then the user's responsibility to make the necessary corrections to this file (see next section on Errors and Corrective Actions). Once corrections have been made, this file, \_\_IMPRJT.WK1, must be imported through the same process. The user should not rename this file. If the file is renamed, the user must enter the dataset, references, and notes over again. If the filename remains the same, GloED will remember this information. The user should continue this iterative process until GloED reports an entirely successful import.

---

---

 *A Word of Caution--If the user wishes to import more than one file from the same directory, each file should be successfully imported in its entirety before the next file is imported. Otherwise, GloED will overwrite the Lotus 1-2-3 file containing the rejects with a new reject file, and the previous reject file will be lost forever.*

---

---

## Errors and Corrective Actions

The GloED **Lotus Importer** searches each record for possible errors. If an error is located, the importer writes the record to the reject spreadsheet, \_\_IMPRJT.WK1. Additionally, GloED will report the source of the error(s) in the fourteenth column (column N) of the reject spreadsheet. If more than one error is detected for a given record, the error list will be delimited with forward slashes. This section lists the errors GloED may find and possible actions to correct these errors.

**Error:** Unknown country, pollutant, category, or fuel. If GloED does not recognize any of these names, the record will be kicked out to the reject file. There are two possible causes for this error: 1) the name is misspelled, or 2) it is a new country, pollutant, category, or fuel.

**Action:** (1) Spell the name correctly. (2) Go through the **GloED Editor** to enter the new country, pollutant, category, or fuel so that GloED will recognize it on the next import attempt. This will consist of entering at least one record containing the new name in question. If a record from the reject file is added via the editor, this record should be deleted from the spreadsheet to avoid duplication.

**Error:** Problem with units. If GloED does not recognize the units given for the activity, the emission factor, or the emissions during the import, it will present a dialog box requesting unit conversion information. If the user is unable to supply GloED with this information, an error is generated. This error will generally be caused by misspelling.

**Action:** Correct the misspelling or provide GloED with the correct units conversion information. Care must be taken to provide the correct conversion factor; otherwise, the GloED units database will become corrupted and GloED will report erroneous values for all values converted to or from the new unit.

**Error:** Not enough data to generate inventory. In order for a record to be complete, it must contain either the emissions field or the activity AND the emission factor.

**Action:** Make sure that the minimum requirements exist.

Error: Units not given. If data is given for the emissions field, the activity field, or the emission factor field, but the corresponding units field is blank, GloED generates an error.

Action: Make sure units are given for each data field that exists.





# **APPENDIX F**

## **REPORTS**





# **APPENDIX F**

## **REPORTS**

Currently there are 5 reports implemented in GloED:

1. National Data Summary
2. Sector Summary
3. Global National Emission Distribution
4. Global Sector Emission Distribution
5. National Sector Emission Distribution

Examples of these reports are included at the end of this appendix as Figures F-1 through F-5.

### **National Data Summary Report**

The National Data Summary report provides the lowest level report available in GloED. It is a hierarchical report listing the activity, emission factor, and estimated emissions. Emissions are summed using the hierarchy. The report lists emissions by pollutant for a country and source category (see Figure F-1).

The data provided in the National Data Summary Report can be confusing if not given careful attention. The numbers in the emissions column are not additive. It is incumbent on the user to determine the highest level of the hierarchy, Motor Vehicles in this case. Diesel Powered Motor Vehicles and Gasoline Powered Motor Vehicles are the next highest levels in the hierarchy, and the sum of these categories provides the basis for the data in the hierarchical level above it (Motor Vehicles). The dashed lines in the Activity and E-Factor columns do not necessarily indicate zeros, but the absence of data.

### **Sector Summary Report**

The Sector Summary report generates a hierarchical list of estimated emissions by sector and country (see Figure F-2).

## **Global National Emission Distribution Report**

The Global National Emission Distribution report produces a distribution of emissions for the currently loaded scenario. The percent of the global emissions for the sources included in the scenario are listed in descending order (see Figure F-3).

## **Global Sector Emission Distribution Report**

The Global Sector Emission Distribution report is a distribution of emission based on a total of the source categories, countries, and pollutants included in the currently loaded scenario. The distribution is in terms of the sectors or source categories in the scenario sorted in descending order (see Figure F-4).

## **National Sector Emission Distribution Report**

The National Sector Emission report is a distribution of emissions within the sector totals within a country. The distribution is with respect to the sectors included in the scenario (see Figure F-5).

**Figure F-1. National Data Summary Report**

National Data Summary Report		Page 1		
		Activity	E-Factor	Emissions
AFGHANISTAN				
Motor Vehicles				
Motor Vehicles				
LIQUID (oil & by-products)		----	----	1.33E-04 Tg/yr *
Gas Oil/Diesel Oil		----	----	9.32E-06 Tg/yr *
Diesel Powered Motor Vehicles				
ALL Fuels Total		----	----	9.32E-06 Tg/yr *
Gas Oil/Diesel Oil		----	----	9.32E-06 Tg/yr *
Heavy Duty Diesel Trucks				
LIQUID (oil & by-products)		----	----	9.32E-06 Tg/yr *
Gas Oil/Diesel Oil		9.32E+01 10^6 km/yr	1.00E-01 g/km	9.32E-06 Tg/yr
ALL Fuels Total		----	----	1.24E-04 Tg/yr *
LIQUID (oil & by-products)		----	----	1.24E-04 Tg/yr *
Light Duty Gasoline Vehicles				
ALL Fuels Total		----	----	1.02E-04 Tg/yr *
Motor Gasoline		5.88E+02 10^6 km/yr	1.74E-01 g/km	1.02E-04 Tg/yr
'*' = computer generated subtotal				

**Figure F-2. National Sector Emission Report**

Sector Data Summary Report		Page 14	Activity	E-Factor	Light Duty Gasoline Vehicles
CH4					
Motor Vehicles					
AFGHANISTAN					
	Motor Gasoline		5.88E+02 10^6 km/yr	1.74E-01 g/km	1.02E-04 Tg/yr
ALBANIA					
	Motor Gasoline		4.59E+02 10^6 km/yr	1.74E-01 g/km	7.99E-05 Tg/yr
ALGERIA					
	Motor Gasoline		8.97E+03 10^6 km/yr	1.74E-01 g/km	1.56E-03 Tg/yr
ANGOLA					
	Motor Gasoline		9.59E+02 10^6 km/yr	1.74E-01 g/km	1.67E-04 Tg/yr
ANTIGUA & BARBUDA					
	Motor Gasoline		4.41E+01 10^6 km/yr	1.74E-01 g/km	7.67E-06 Tg/yr
ARGENTINA					
	Motor Gasoline		1.37E+04 10^6 km/yr	1.74E-01 g/km	2.38E-03 Tg/yr
AUSTRALIA					
	Motor Gasoline		3.57E+04 10^6 km/yr	9.00E-02 g/km	3.21E-03 Tg/yr
AUSTRIA					
	Motor Gasoline		4.19E+04 10^6 km/yr	1.74E-01 g/km	7.29E-03 Tg/yr
BAHAMAS					
	Motor Gasoline		3.70E+02 10^6 km/yr	1.74E-01 g/km	6.44E-05 Tg/yr
BAHRAIN					
	Motor Gasoline		6.39E+02 10^6 km/yr	1.74E-01 g/km	1.11E-04 Tg/yr
BANGLADESH					
	Motor Gasoline		3.16E+03 10^6 km/yr	1.74E-01 g/km	5.50E-04 Tg/yr
BARBADOS					
	Motor Gasoline		2.39E+02 10^6 km/yr	1.74E-01 g/km	4.16E-05 Tg/yr



**Figure F-3. Global National Distribution Report**

	Emissions Tg/yr	Percent Scenario
USA		
CH4	2.86E-01	34.4002
URUGUAY		
CH4	2.79E-04	0.0336
VANUATU		
CH4	4.46E-06	0.0005
VENEZUELA		
CH4	1.85E-03	0.2228
VIETNAM		
CH4	2.63E-04	0.0317
WESTERN SAHARA		
CH4	4.49E-06	0.0005
YEMEN		
CH4	1.10E-03	0.1328
YUGOSLAVIA		
CH4	5.57E-03	0.6707
ZAIRE		
CH4	7.39E-05	0.0089
ZAMBIA		
CH4	7.07E-05	0.0085
ZIMBABWE		
CH4	2.23E-04	0.0268
BOTSWANA		
CH4	7.14E-05	0.0086
NAMIBIA		
CH4	6.35E-05	0.0076
LESOTHO		
CH4	1.35E-05	0.0016
SWAZILAND		
CH4	2.08E-05	0.0025

## Figure F-4. Global Sector Emission Distribution Report

Global Sector Emission Distribution Report

Page 1

	Emissions Tg/yr	Percent Scenario
Motor Vehicles		
Motor Vehicles		
CH4	8.30E-01	100.0000
Diesel Powered Motor Vehicles		
CH4	6.21E-02	7.4841
Light Duty Diesel Trucks		
CH4	1.85E-03	0.2224
Heavy Duty Diesel Trucks		
CH4	6.03E-02	7.2617
Gasoline Powered Motor Veh.		
CH4	7.68E-01	92.5159
Light Duty Gasoline Vehicles		
CH4	6.40E-01	77.0683
Light Duty Gasoline Trucks		
CH4	1.11E-01	13.3976
Motorcycles (gasoline)		
CH4	1.70E-02	2.0501

**Figure F-5. National Sector Emission Distribution Report**

	Emissions Tg/yr	Percent Scenario	Percent National
Motor Vehicles			
CH4	4.14E-03	0.4992	100.0000
Diesel Powered Motor Vehicles			
CH4	3.41E-04	0.0411	8.2379
Light Duty Diesel Trucks			
CH4	3.60E-05	0.0043	0.8677
Heavy Duty Diesel Trucks			
CH4	3.05E-04	0.0368	7.3702
Gasoline Powered Motor Veh.			
CH4	3.80E-03	0.4580	91.7621
Light Duty Gasoline Vehicles			
CH4	3.10E-03	0.3732	74.7626
Light Duty Gasoline Trucks			
CH4	7.04E-04	0.0849	16.9994
IRELAND			
Motor Vehicles			
CH4	1.89E-03	0.2273	100.0000
Diesel Powered Motor Vehicles			
CH4	1.21E-04	0.0146	6.4226
Light Duty Diesel Trucks			
CH4	2.43E-06	0.0003	0.1288
Heavy Duty Diesel Trucks			
CH4	1.19E-04	0.0143	6.2939
Gasoline Powered Motor Veh.			
CH4	1.77E-03	0.2127	93.5774
Light Duty Gasoline Vehicles			
CH4	1.52E-03	0.1836	80.7840
Light Duty Gasoline Trucks			
CH4	2.02E-04	0.0244	10.7268
Motorcycles (gasoline)			
CH4	3.90E-05	0.0047	2.0666
ISRAEL			
Motor Vehicles			
CH4	7.02E-04	0.0845	100.0000
Diesel Powered Motor Vehicles			
CH4	6.44E-05	0.0078	9.1747
Heavy Duty Diesel Trucks			
CH4	6.44E-05	0.0078	9.1747



# **APPENDIX G**

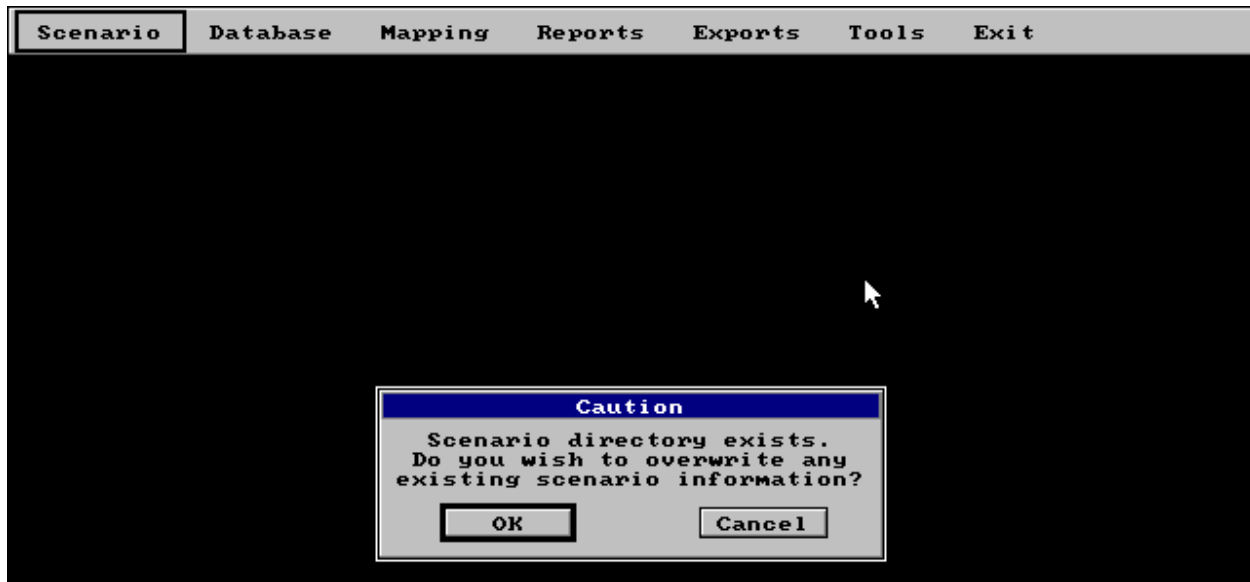
## **GloED MESSAGES**

## **APPENDIX G**

### **GloED MESSAGES**

A variety of messages are possible, depending upon what function you are trying to perform. This appendix shows the warning, information, and error messages you are likely to encounter and provides an explanation of why they occur and what to do when they occur.

## Message # 1



### Scenario Already Exists Warning Message

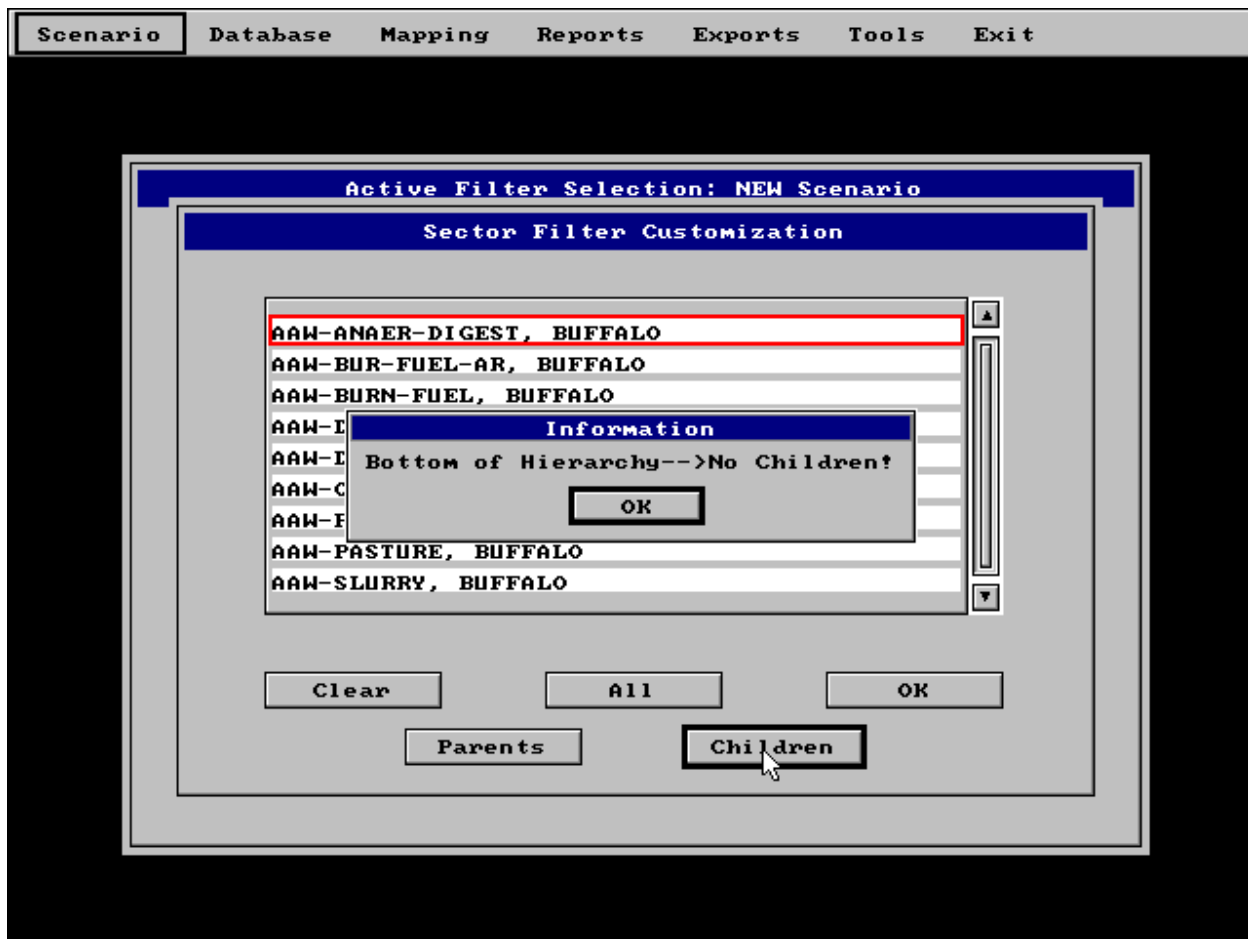
This message appears when you are in the **"Select a Scenario to Generate"** screen, if you select a scenario name from the scroll box and then select [OK].

The message is telling you that the scenario already exists. The message is implying that because the scenario already exists, it contains specifically customized or defined data elements.

The message is telling you that if you select [OK], from the message screen, GloED will overwrite the customized files that you had previously generated for the scenario of that name and will replace them with **"All Available Selections."**

If you want to save the integrity of the scenario you selected, select [CANCEL] from the message screen. Go back to the **"Select a Scenario to Generate"** screen and enter a new scenario name.

## Message # 2



Bottom of Hierarchy--No More Children



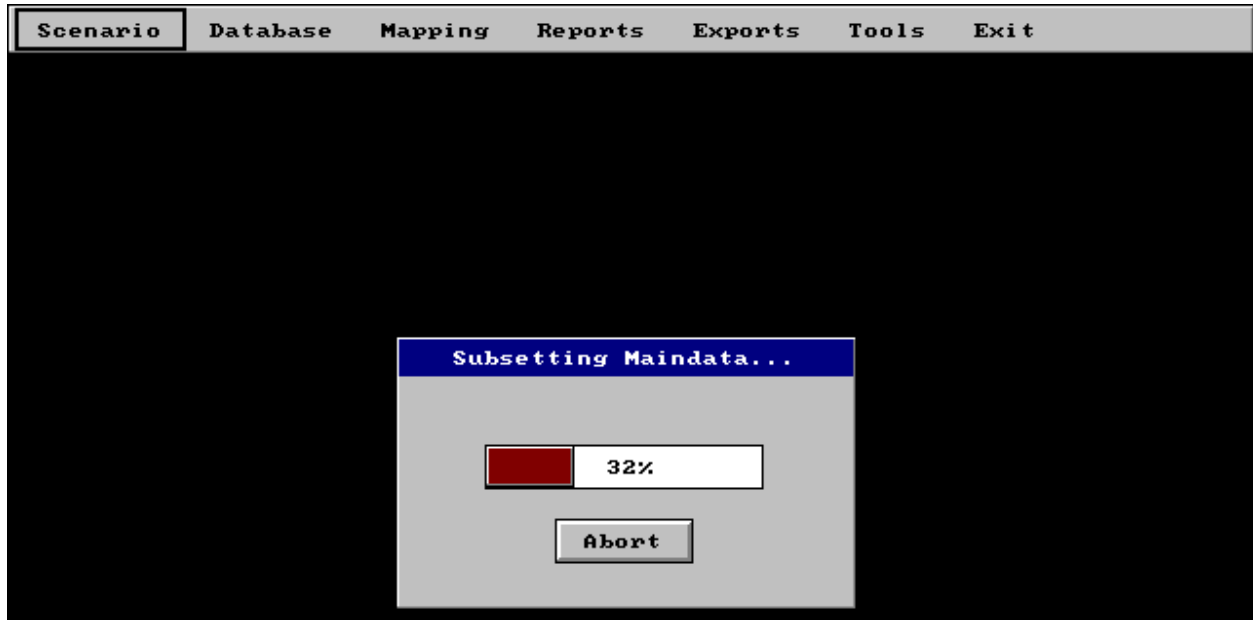
This message appears in the "**Sector Filter Customization**" and the "**Fuel Filter Customization**" screens. It merely indicates that no more "children" have been defined in the hierarchy of the dataset.

You may actually be at the bottom of the hierarchy **OR** you may only be at the bottom of the hierarchy of the items you have selected.

To demonstrate what we mean, go through this example. Select **Scenario/Generate**. Name a scenario to generate and select **[OK]**. The "**Active Filter Selection**" screen appears. In the customizing screens for "**Sector**" and "**Fuel**," when a parent category is selected, all of its children are also automatically selected. Select the **[CUSTOM]** button for "**Sector**." Select **[AGRICULTURE TOTAL]/[CHILDREN]**. The next screen shows all of the "children" of that parent and all of the "children" are selected. Now, if you select **[CHILDREN]** again, Message # 2 appears on your screen. Select **[OK]** in the message box. Select **[CLEAR]/[ANIMAL HUSBANDRY TOTAL]/[CHILDREN]**. Now, a screen will appear that shows you the "children" of the "**Animal Husbandry Total**" category. Selecting **[CHILDREN]** for any of the items listed will cause Message # 2 to appear. Indeed, you are now at the bottom of the hierarchy.

Select **[OK]** from the message screen and you will be returned to the previous screen. Select **[CANCEL]**.

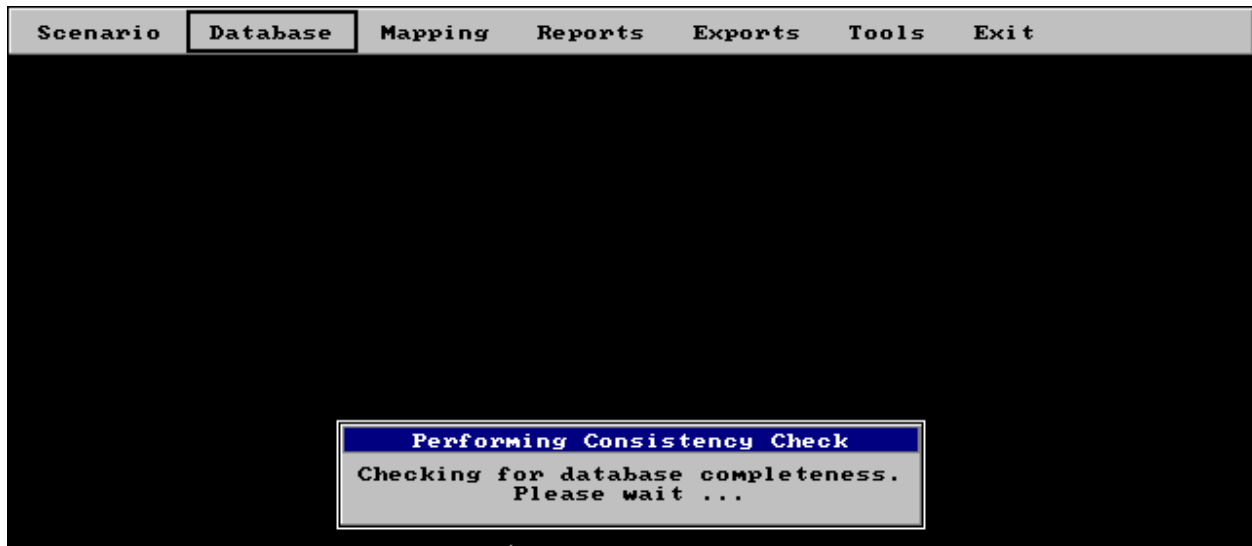
### Message # 3



#### Subsetting Maindata Message

This message appears after you have selected the customization for a scenario. It tells you that GloED is building a subset of the main data. You must wait for the system to complete the subset before you can perform any more functions.

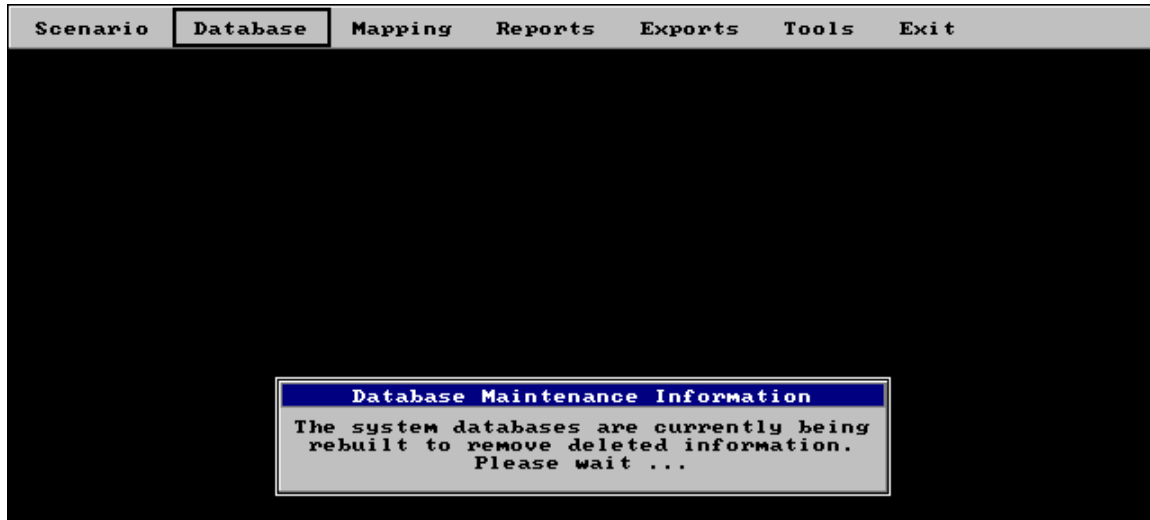
## Message # 4



### Checking for Database Completeness Message

This message is part of a series of messages that appear when you select **Database/Rebuild**. You would make this selection after you have added or changed data in the datasets, or after you have received some other error message indicating that inconsistencies have been found in the databases. Selecting **Database/Rebuild** will rebuild the database index files. You will have to wait until the rebuild is finished before you can perform other functions.

## Message # 5



### Database Deletion Message

This message appears when you have been in **Database** and have selected records to delete, marked records for deletion, and selected [OK] from the "**GloED Database Editor**" screen.

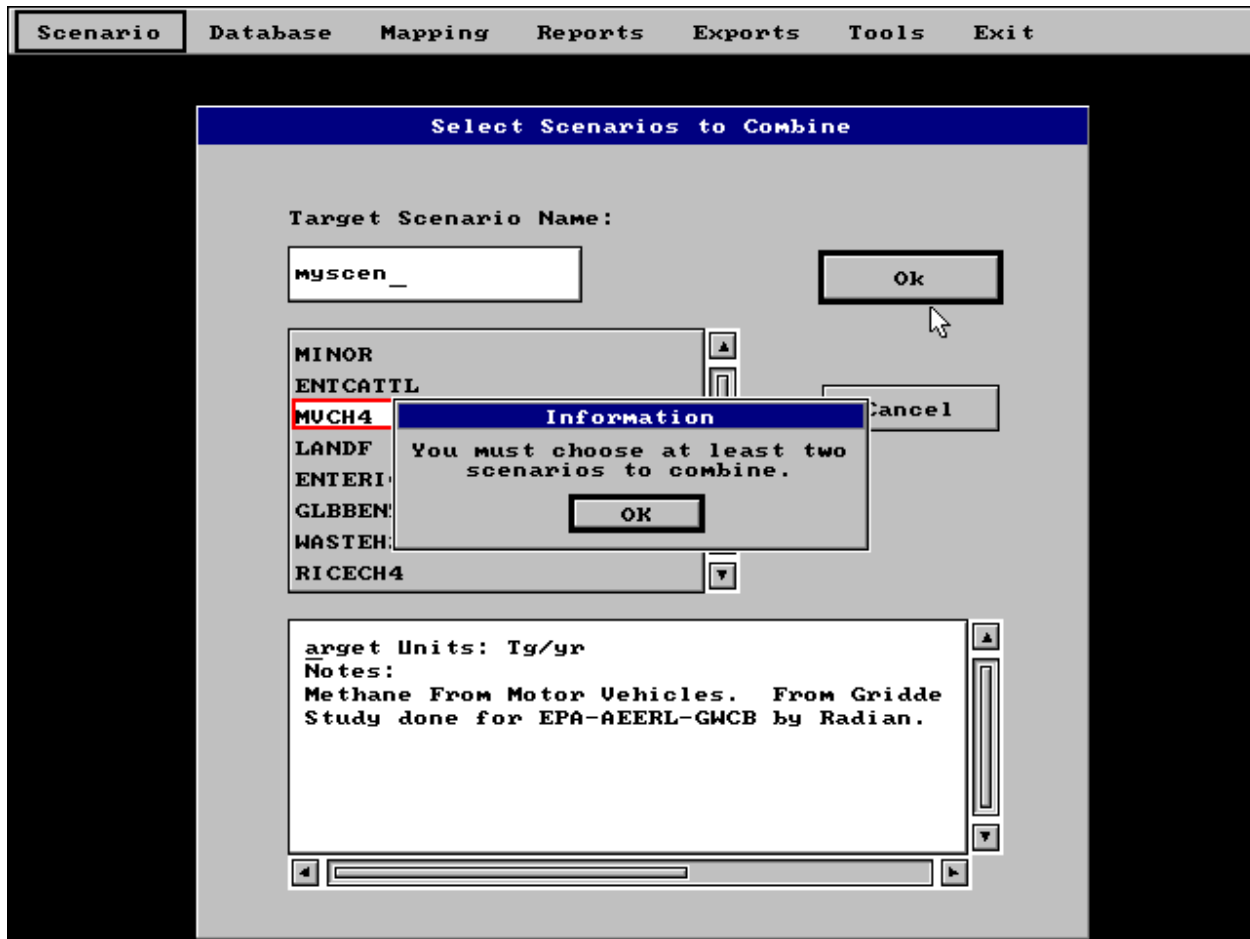
## Message # 6



### Target Scenario Filename Missing Message

This message appears when you forget to enter a target scenario name when combining scenarios.

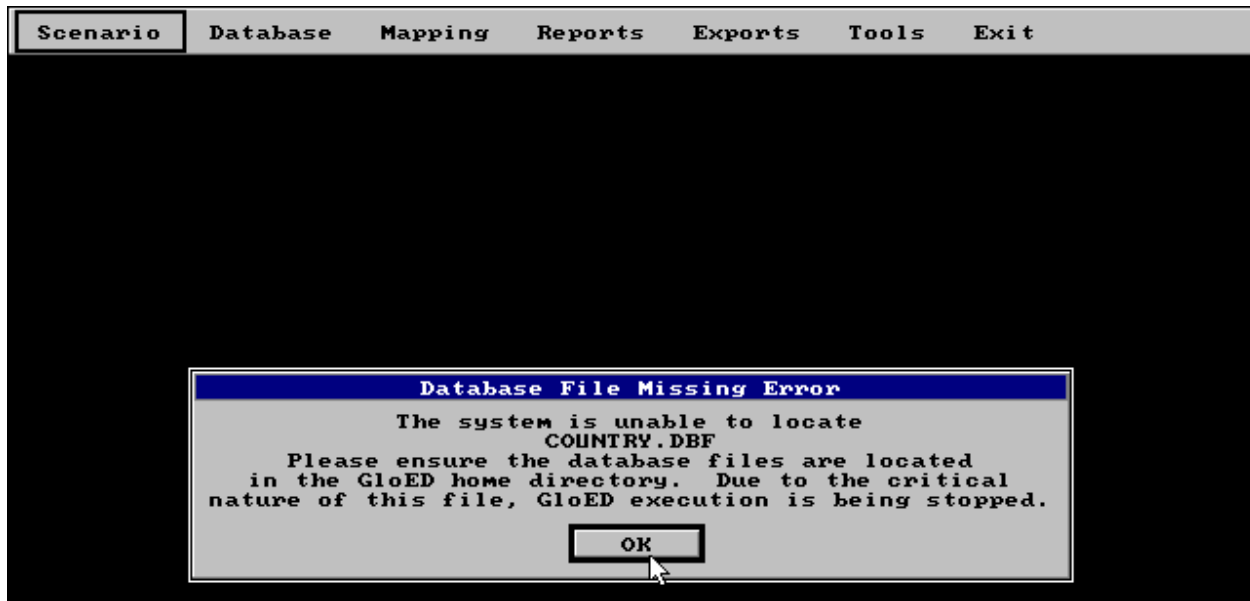
## Message # 7



Choose Two Scenarios Error Message

This message appears when you forget to choose at least two scenarios to combine.

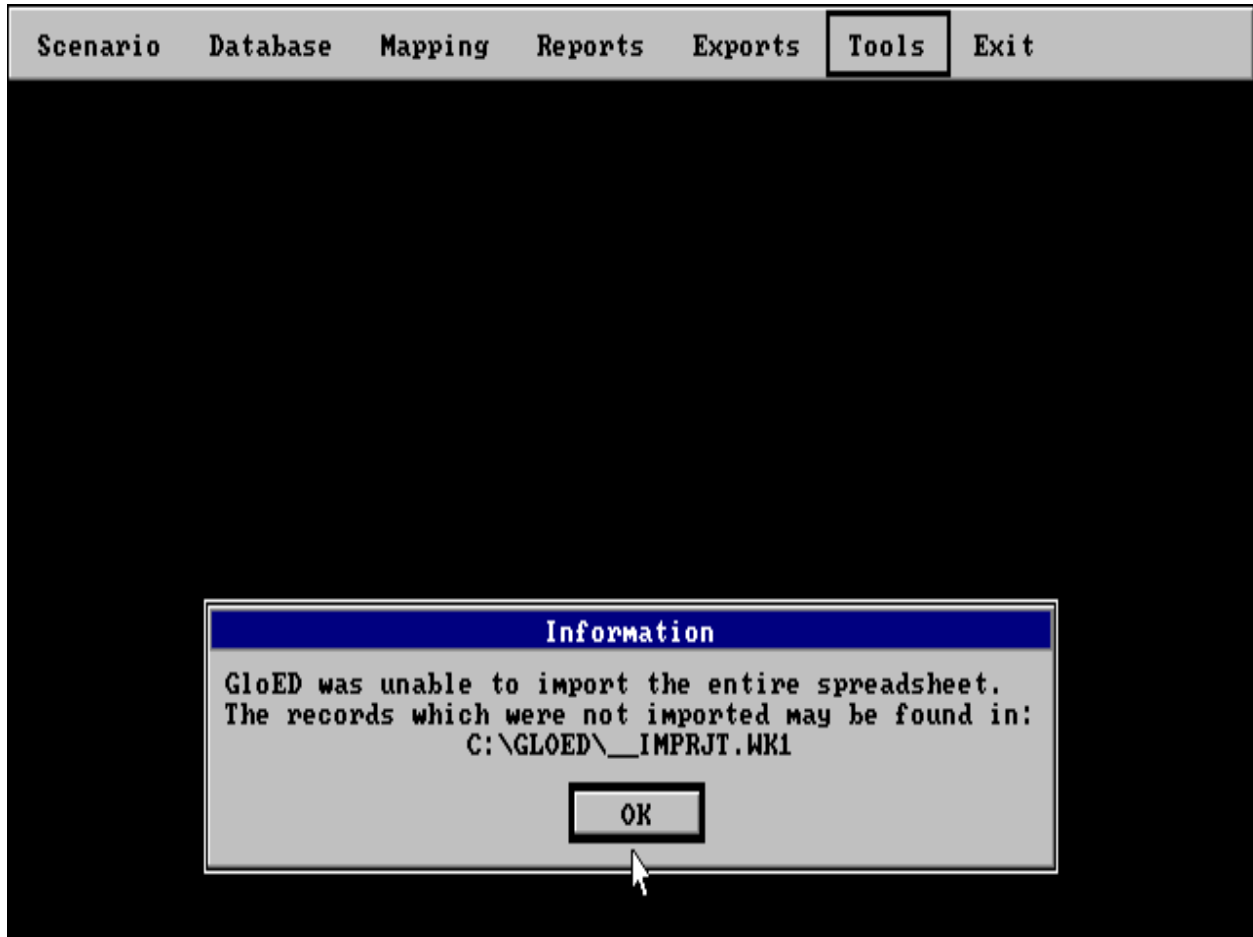
## Message # 8



### Critical Error Message--Country.dbf File Missing

This is a critical error message. All critical error messages will shut down the system. You must select [OK] from the message box and then re-execute the program. It is a good idea to **Rebuild** the index files after re-executing the program following a critical error. In some cases, such as in the particular error encountered in message #8, it is necessary to reinstall GloED.

## Message # 9



### Incomplete Import Warning Message

This message appears when the **Lotus Importer** was unable to import the entire Lotus 1-2-3 spreadsheet. Note that you are given the name of a new .wk1 file containing the information that was not imported.